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THE IDENTIFICATION OF COMMON COURSES IN PARAMEDICAL EDUCATION.
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MEDICAL SERVICES, NURSES, PHYSICAL THERAPIST,
*PARAMEDICAL OCCUPATIONS EDUCATION, TEMPE, ARIZONA

INTEGRATION OF PARAMEDICAL EDUCATION THROUGH CONSOLIDATION OF RELATED TRAINING WAS STUDIED AS A FIRST STEP IN CURRICULUM DESIGN FOR MAXIMUM EFFICIENCY OF EDUCATIONAL PROGRAMS WHICH WILL MEET THE CHANGING REQUIREMENTS OF MEDICAL CARE OCCUPATIONS. THE OBJECTIVES WERE TO DETERMINE--(1) COURSES COMMON TO PRESENT PARAMEDICAL EDUCATION PROGRAMS, (2) THE NATURE OF SUCH COMMONALITIES, AND (3) GUIDELINES FOR THE INTEGRATION OF THESE PROGRAMS. ALL MAJOR MEDICAL, DENTAL, AND PARAMEDICAL GROUPS FROM UNIVERSITY, JUNIOR COLLEGE, HIGH SCHOOL, AND HOSPITAL PROGRAMS IN A METROPOLITAN AREA WERE REPRESENTED IN A WORKSHOP OF 24 PARAMEDICAL EDUCATORS WHO MET WEEKLY FOR 6 MONTHS. MEMBERS OF THE WORKSHOP GATHERED CURRICULUM MATERIALS FOR 20 PARAMEDICAL CAREERS FROM 126 EDUCATION PROGRAMS CONSISTING OF 2,613 COURSE TITLES IN 110 SEPARATE INSTITUTIONS THROUGHOUT THE UNITED STATES. COMPUTER PRINT-OUTS LISTED CAREERS, COURSES, SUBJECT CLASSIFICATIONS, AND RELATED DESCRIPTIVE DATA SUCH AS NUMBER OF CLOCK HOURS FOR EACH IN LECTURE, LABORATORY, AND CLINICAL EXPERIENCE. OF THE 126 GENERAL SUBJECT CLASSIFICATIONS, 78 WERE COMMON TO 2 OR MORE PARAMEDICAL FIELDS. THERE APPEARED TO BE A DIFFERENCE OF OPINION AMONG CURRICULUM DEVELOPERS OF PARAMEDICAL EDUCATION PROGRAMS AND A NEED FOR A STUDY IN EACH OF THE PARAMEDICAL CAREERS OF THE TASKS PERFORMED BY THE PRACTITIONERS. (JM)

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The Identification of Common Courses
in
Paramedical Education

College of Education
Arizona State University
Tempe, Arizona
July 15, 1966

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SUMMARY OF PROJECT

A. Grant number OE-6-85-032

B. Title: The Identification of Common Courses in Paramedical Education

C. Investigator: Dr. Bill J. Fullerton, Professor and Chairman of the Department of Secondary Education, Arizona State University

D. Institution: Arizona State University, Tempe, Arizona

E. Duration: November 15, 1965 to July 15, 1966

F. Purpose and Objectives:

Health care of the highest quality for all who need it is a goal that cannot be realized in any community where there are serious shortages of medical and paramedical personnel. The existence of such shortages is a serious problem of our times. Many educators, hospital administrators, physicians and public administrators believe that a fragmented system of education in the paramedical fields is to some extent responsible for this situation. They point to the difficulties experienced in recruiting qualified students, the high drop-out rate (one-third to two-thirds of those who enroll), the high cost of instruction due to small classes and limited use of expensive equipment, lack of enough qualified faculty, and the frustrating discrepancies that occur between training programs and job requirements.

The Identification of Common Courses in Paramedical Education is an attempt to explore the integration of paramedical education through curriculum consolidation of related training programs. The overall objective of this research is to design curricula based on the changing requirements of medical care for educational programs with maximum efficiency. The objectives of this phase of the research--the first step in designing these curricula--are to determine courses common to present paramedical education programs, the nature of such commonalities, and guidelines for the integration of these programs.

G. Procedure:

A workshop was established consisting of 24 paramedical educators representing all major medical, dental, and paramedical groups from university, junior college, high school and hospital programs in the Phoenix metropolitan area. This workshop met regularly each week for six months under the direction of the Principal Investigator, Dr. Bill J. Fullerton, and Dr. Willard Fetterhoff, a Curriculum Specialist in the Department of Secondary Education at Arizona State University. Members of the workshop gathered curriculum materials for 20 paramedical careers from 126 education programs in 110 separate institutions throughout the United States. Each member of the workshop collected materials in the area of his or her specialization, and professional judgment was exercised in analyzing, classifying, and interpreting these materials. Consistency in interpretation and interdisciplinary comparative judgment were achieved through the regular meetings of the entire workshop. Altogether, 2,613 course titles and their contents were examined. These were reduced to 126 general subject classifications. The subject classifications were programmed in a computer, together with the level (high school, post-high school, junior college, university or other) of education at which they occurred in each institution, and the depth of content as indicated by the number of clock hours devoted to classroom lectures, laboratory experience, and directed clinical practice.

The 20 educational programs analyzed by the workshop were as follows: three-year registered nurse, two-year registered nurse, licensed practical nurse, nurse aide, dental assistant, medical technologist, medical secretary, radiologic technologist, dental hygienist, dental technician, physical therapist, physical therapy assistant, occupational therapist, occupational therapy assistant, inhalation therapist, medical assistant, laboratory assistant, medical record librarian, medical record technician, radioisotope technician. The number of programs examined for each career ranged from one for dental technicians and physical therapy assistants to ten or more for three-year R.N.'s, two-year R.N.'s, medical technologists and medical record librarians.

Two computer print-outs were made listing the 20 paramedical careers studied and the courses required for each career in each of the 126 schools from which curriculum materials had been obtained. All 2,613 courses were listed under their respective subject classifications as indicated by the workshop, with the number of clock hours for each in lecture, laboratory, and clinical experience. Each course was identified also by the institution and the level of instruction at which it was given. A complete review of the first computer print-out was made by the workshop and reinterpretations of some of the data were programmed for the second computer run.

It was evident at this point that considerable variation was to be found in many of the same courses offered by different institutions. For example, the workshop had identified 22 separate courses under the subject classification of "Nursing, Fundamentals". These 22 courses are offered in 12 different schools. Two of the schools require laboratory experience in Nursing Fundamentals; four of them require clinical practice in their fundamentals course; and the others require only classroom lectures. In the four schools requiring clinical practice in their fundamental course, the amount of clinical practice ranges from 20 to 360 clock hours. The total clock-hour requirement in Nursing Fundamentals in the 12 schools offering this course ranges from 18 hours to 465 hours.

Numerical comparisons were then made of the 20 paramedical programs for which information was obtained. The number of course titles examined by the workshop and the number of subject classifications to which they were reduced were listed for each program. For example, 18 three-year R.N. programs had been examined by the workshop and found to contain 425 different course titles. These were reduced to 27 subject classifications. Similarly, 12 medical technologist programs had been examined containing 175 course titles, which were reduced by the workshop to 32 subject classifications. The large number of course titles in each occupation indicated a general absence of standardization among schools educating students for the same career, an observation further borne out by the wide variations in clock hours for similar courses at different institutions. In reducing the large number of course titles to a smaller number of subject classifications, the workshop only approximated a standardization of subject matter, and it was recognized that only general rather than specific commonalities between programs could be identified.

On this basis it was found that a very wide range of commonalities existed in the subject classifications common to more than one career program. The number of programs to which each of the subject classifications was found to be common extended from two to 16. Forty-eight of the 126 subject classifications were limited to one field only. Seventy-eight of the subject classifications were common to more than one field. The 11 most frequent commonalities, with the number of career programs requiring the subject in each case, were: general education--16; anatomy and physiology--15; microbiology--14; uncommon courses--14; anatomy--12; professional ethics--12; general psychology--12; electives--12; medical terminology--11; mathematics--9; general chemistry--9. Forty of the subject classifications were common to four or more paramedical careers.

Further analysis of the commonalities between and among the 20 paramedical careers revealed that each career has substantial numbers of subject classifications in common with each of several other careers. In a few cases the absence or near absence of commonality was also revealed. For example, the three-year registered nurse program has 16 subject classifications in common with the licensed practical nurse program; 10 in common with the radiologic technologist program; 14 in common with the dental hygienist program; and only one in common with the dental technician program.

A detailed analysis of variations in clock hours required by different institutions within each subject classification was made by the workshop. The range was determined for each subject classification within each of the 20 paramedical education programs. Microbiology, for example, which was found to be among the most common subject classifications (required in 14 of the 20 paramedical education programs studied), had a range in clock hours for three-year registered nurses from 36 at one school to 256 at another. The same course ranged from 55 to 128 clock hours for two-year registered nurse programs. For medical technologists, the range was from 96 to 880 clock hours.

A series of charts and tables containing the results of the computer print-out and the analyses and interpretations of those results by the workshop were constructed for final evaluation and summarization of the findings. These were made initially by the Principal Investigator and his professional staff, then submitted to the individual members of the workshop for editing. The report containing results and conclusions represents a concensus of the professional judgment of the members of the workshop based on the curriculum materials studied and the computer analysis of these materials.

H. Results and Conclusions:

Curricula for 20 paramedical education programs from 126 separate schools located in 110 institutions in 36 states revealed 2,613 course titles. These were reduced to 126 general subject classifications. Seventy-eight of these were found to be common to two or more paramedical education programs.

Of the 20 paramedical education programs studied, 12 were found to have a high incidence of commonality of general subject classifications. Eight were found to have a lower incidence of commonality. For the most part, those with the higher incidence of commonality were the programs requiring higher levels of skill and knowledge. Common courses were less evident in programs requiring less training.

Considerable variations were revealed in course titles and course content (reflected by clock hours in lecture, laboratory and clinical experience) among institutions offering educational programs for the same paramedical careers. The minimum and maximum total clock hours required in any given subject classification varied extensively among different paramedical fields and within the same field.

In paramedical careers where national accreditating agencies exist or where the Council on Medical Education of the American Medical Association has established minimum essentials, the educational programs tend to be more standardized and do not vary as greatly as in careers for which educational standards are not prescribed. The extent of such standardization, however, is considerably less than might be expected. Differences of opinion among curriculum developers of all paramedical education programs are evidenced by the extensive differences in clock hours required in similar courses of study and in the different courses of study prescribed in the same paramedical fields.

It was clearly evident that many of the paramedical education programs in which students are trained for different careers require much of the same course content. This would indicate that curriculum developers can, in fact, combine courses, classes, faculty, facilities and materials for more efficient and economical programs.

Equally evident, however, is the need for behavioral objectives to be more precisely identified than has yet been done if significant results are to be accomplished. Studies should be conducted in each of the paramedical fields to ascertain the relationships between required educational programs and actual job experience. The irregularity of general education requirements (communications, humanities, social and behavioral sciences, science and mathematics, and physical education) raises questions not of the value of general education but of its relationship to the particular requirements of each paramedical career. The proliferation of technical course titles and their wide variation in content and depth suggests that most of them could be substantially redesigned without endangering accreditation standards. A strong possibility exists that much of the content of both general education and technical courses could be taught in centrally located school systems rather than for each institution to expend time, talent, facilities and finances on small and possibly inferior classes.

The results of this research suggest rather strongly that paramedical education today reflects the personal philosophies of the educators who have developed a variety of curricula. Additional research would provide a foundation upon which to base new philosophical approaches to paramedical education which are more effective in terms of the tasks to be performed, and which are better able to meet the demands of scientific progress and changing health manpower requirements.

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CHAPTER I

THE PROBLEM AND SIGNIFICANCE OF THE STUDY

General Background for the Study

The need for qualified individuals to adminster to the health service or paramedical responsibilities associated with the activities of members of the medical and dental professions is apparent. Equally as noticeable is the fact that individuals engaged in allied medical and health service activities are always in short supply. Concerned individuals indicate, however, that the critical element is the alarming statistical information which reveals the increasing number of shortages of fully prepared graduates who are qualified and skilled in the many paramedical occupations and career fields. Charles A. Boyle[1] reported in a current survey conducted by the Arizona State Employment Service that 14,280 persons were employed in 16 health service occupations in the State of Arizona. Of this number, 7,800 were employed in the Phoenix metropolitan area. The survey revealed that there were positions vacant at that time in each of the 16 paramedical occupations. This fact is serious enough, but more alarming were the survey figures which (taking into consideration the demand, the replacements, and the deficits) projected a net shortage of 2,321 persons in these 16 health service occupations in Arizona by 1970. Boyle reported further that an additional deficit could be anticipated as a result of the population growth in Arizona which has averaged an increase of seven per cent or more annually the past 15 years. Additional shortages will also result because of the recent Kerr-Mills and Medicare legislation, and because of a trend which indicates people, with increasing frequency, are making demands and utilization of hospitals and other health agencies.

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[1] Charles A. Boyle, "Manpower Trends in Selected Paramedical Occupations," Manpower Planning and Employment Development Section, Arizona State Employment Service, June, 1965.

The increased specialization of health services, the recent social concern for extending health care, and the lengthening life span, all stress the need to direct our attention upon the preparation of personnel for paramedical careers. This problem should be of great concern to all of us and stated in direct and simple terms focuses attention upon (1) a shortage of paramedical service personnel and (2) programs which prepare qualified individuals for careers in paramedical occupations.

The Need for Study

Health agencies ranging from the Office of the Surgeon General to local hospital directors' offices are aware of the need to meet the critical shortage of personnel prepared in the paramedical occupations. They are also mindful of the need for improved efficiency in selection, education, and retention practices of paramedical personnel in an effort to help provide adequate health services for the present as well as to meet the demands of the future. In a survey conducted by Good Samaritan Hospital it was revealed there were between 1,200 and 1,300 students enrolled in health occupation training programs in the Phoenix metropolitan area in the spring semester of 1965. On the basis of past experience, not more than one-third of these students are expected to complete their training. This is a net annual graduation of less than 400, yet present population growth patterns in the Phoenix area alone requires an annual graduation of 600 to 700.[2]

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[2] Survey conducted by Good Samaritan Hospital, Phoenix, Arizona, March, 1965.

Many educators, hospital administrators, physicians and interested observers throughout the country believe that the present fragmented system of education for paramedical careers is to some extent responsible for these shortages.[3]

The Statement of the Problem

It would appear from the foregoing discussion that a need exists to study several aspects of the problem area. This investigation, however, was confined to the curricular elements related to the problem area. It was believed that initial research efforts should be aimed at seeking answers to the following questions: are there courses required in paramedical education programs which are common to all or many of these programs? If so, what is the nature of this commonality and to what extent does the commonality exist? Can guidelines be established, based on the findings of this research, leading to a single paramedical education center and developing an integrated approach to the curriculum of several related paramedical education programs?

Delimitations of the Study

Paramedical career fields for which education programs are offered in the Phoenix, Arizona metropolitan area were studied. In addition, data were collected and analyzed from out-of-state paramedical education programs not now available in the Phoenix area, but for which a recognized need exists at the present time. In all, a total of 20 paramedical careers were finally included in the study. They are listed below:

1. Three-year Registered Nurse
2. Two-year Registered Nurse
3. Licensed Practical Nurse
4. Nurse Aide
5. Dental Assistant
6. Medical Technologist

---

[3] Several of these persons are referred to by name in the following section on Research Design and Procedures of this report. These observations are also to be found in the report of the National Task Force on Health Manpower, and in the recommendations of the National Advisory Committee on Health Occupations, adopted in December, 1964.

7. Medical Secretary
8. Radiologic Technologist
9. Dental Hygienist
10. Dental Technician
11. Physical Therapist
12. Physical Therapy Assistant
13. Occupational Therapist
14. Occupational Therapy Assistant
15. Inhalation Therapist
16. Medical Assistant
17. Laboratory Assistant
18. Medical Record Librarian
19. Medical Record Technician
20. Radioisotope Technician

Attempts were made to gather curricular materials from other paramedical education programs in addition to those listed above, but without success. The fact that some institutional representatives contacted failed to return materials for analysis or to return useable materials, in terms of this study's research design and procedures, was responsible for this problem. The study, therefore, is now related to the reader, in terms of the data returned relative to the 20 paramedical education programs listed previously.

Objectives of the Study

By way of summary, it is appropriate to state the objectives of the study. Stated briefly, the objectives of this investigation were (1) to identify courses which were common to two or more of the various paramedical education programs being researched, and (2) to determine the nature and extent of such commonality insofar as it might help the investigators suggest guidelines for the integration of some parts of these various paramedical education programs.

CHAPTER II

RESEARCH DESIGN AND PROCEDURES

Method of Research

In general, the method of research employed was descriptive and analytical. The procedures involved, however, were somewhat unique because of the large number of specialized personnel involved in gathering and interpreting data. Therefore, the research methodology could be classified further as a form of action research. The terms of the approved research proposal set up some specifications which made action research involving community participation in this project an important part of the method of investigation. The proposal was designed, hopefully, as the first step of a continuing curriculum project in paramedical education which would ultimately result in improved efficiency in training paramedical specialists and which would help to alleviate shortages of paramedical personnel in the Phoenix metropolitan area. The purpose of the study necessarily called for the interest, support, involvement, and participation of members of the community. This proposal further was designed as an initial or introductory step toward determining if it would be practical to extend the concept of paramedical education consolidation to all of the hospitals and educational institutions in the Phoenix metropolitan area. The idea for the proposal originated in a community-wide cooperative enterprise of many hospital administrators, professional medical people, professional educators, and interested community lay leaders who were cognizant of the need and urgency for action.

The method of research, in other words, might appropriately be described as community cooperation in action research in order to collect, analyze, classify, and interpret data relative to paramedical education for purposes of helping to find solutions to a problem of growing and urgent community concern.

Efforts made to locate related research to support this research proposal revealed that relatively little information was available which was concerned with the development and improvement of paramedical education as a cooperative community enterprise such as envisioned here.

Because of circumstances described above, a Paramedical Curriculum Advisory Committee was selected by the Phoenix Planning Board for a Health Services Education Center. The Phoenix Planning Board has overall responsibility for the planning program, including curriculum development. Table 1 presents a list of the names and the official positions of the 24 members selected for the Paramedical Curriculum Advisory Committee. From the official positions indicated for each of the members of the Committee, it can be noted that the committee was composed of administrative and faculty representatives from high school, junior college, university, and hospital training programs representing the seven major institutions in the Phoenix metropolitan area, and representing all major medical, dental, and paramedical groups. Members of this Advisory Committee represent institutions at which educational programs now exist for training personnel for paramedical careers. Moreover, many of them were officials who were directly responsible for and/or actively engaged in paramedical education and who had access to curricular data in paramedical education.

Procedures Utilized in the Study

Under the supervision of the Principal Investigator, Dr. Bill J. Fullerton, Professor and Chairman of the Department of Secondary Education, Arizona State University, Tempe, Arizona and assisted by the Director of the Planning Program, Dr. Arthur M. Lee, Director, Arizona Health Services Education Association, Phoenix, Arizona, and a Planning Advisor, Colonel Harold H. Moore, Assistant Director, Arizona Health Services Education Association, the paramedical Curriculum Advisory Committee undertook the problem of accomplishing the

TABLE 1

PARAMEDICAL CURRICULUM ADVISORY COMMITTEE

Name	Title
Floretta Awe, R.N.	Chairman, Nursing Department Phoenix College
Carl R. Bjorklund, M.D.	Director of Physical Medicine and Rehabilitation, Chairman, Department of Physical Medicine and Rehabilitation Good Samaritan Hospital
Vurlyne Boan, R.N.	Director, School of Nursing Good Samaritan Hospital
Gordon V. Bradshaw, Ph.D.	Professor of Biology Phoenix College
Eugene Chasey, Ed.D.	Assistant Professor of Education Arizona State University
Sister Mary Christina, Ph.D.; R.N.	Director, School of Nursing St. Joseph's Hospital
Paul Crosier	Architectural Consultant Busby Associates
Ralph Fargotstein, M.D.	Director of Laboratories Maricopa County General Hospital
Willard Fetterhoff, Ed.D.	Assistant Professor of Education Arizona State University
Bill J. Fullerton, Ed.D.	Chairman, Department of Secondary Education Professor of Education Arizona State University
Donald Grandgenett	Research Assistant and Faculty Associate Arizona State University
Nelson L. Haggerson, Ph.D.	Professor of Education Arizona State University
Richard Harms, R.P.T.	Director of Rehabilitation Services Good Samaritan Hospital
Clyde Hollister, R.T., B.Sc.	Director of Radiologic Technology Training St. Joseph's Hospital
Robert H. Huntington, D.M.D.	Chairman of Dental Hygiene Arizona State Dental Assoc.

Paramedical Curriculum Advisory Committee, cont.

Arthur M. Lee, Ph.D.	**Director, Arizona Health Services Education Association**
Shirley Mannion, R.N.	**Department Head Practical Nursing Program Phoenix Union High School**
Colonel Harold Moore	**Assistant Director, Arizona Health Services Association**
William T. Northey, Ph.D.	**Assistant Professor of Microbiology Arizona State University**
Charles Purtymun, D.M.D.	**Chairman of Dental Hygiene Arizona State Dental Assoc.**
James Riordan, M.D.	**Director of Radiology St. Joseph's Hospital**
Samuel Runyon, A.R.I.T.	**Director of Inhalation Therapy St. Luke's Hospital**
Irwin Spector, M.A.	**Director of Research and Curriculum Maricopa County Junior College System**
Mildred Welnick, R.R.L.	**Director, Medical Records Department St. Joseph's Hospital**

objectives of the research proposal. To review, these objectives were to determine courses common to present paramedical education programs; to determine the nature and extent of such commonalities; and to develop guidelines, if appropriate, for the integration of these programs.

The Paramedical Curriculum Advisory Committee was organized into a Workshop group. Dr. Willard Fetterhoff, a curriculum development specialist in the Department of Secondary Education at Arizona State University, was appointed as the Chairman and Director of the Workshop group by the Principal Investigator. Under Dr. Fetterhoff's supervision and direction, research assignments were made to members of the Paramedical Curriculum Advisory Committee Workshop staff. Assignments were made on the basis of their positions, responsibilities, and experience in the various paramedical careers. A Steering Committee was appointed consisting of the Workshop Chairman, Principal Investigator, and two professors who are specialists in curriculum development from the Department of Secondary Education at Arizona State University, Dr. Nelson Haggerson and Dr. Eugene Chasey. The Steering Committee was responsible for the plan of action at the meeting of the Workshop staff. Research assignments given to the curriculum analysts of the 20 paramedical careers investigated are listed in Table 2. When a comparison of the assignments to researchers of paramedical careers, as listed in Table 2 is made with the official positions of the researchers, as listed in Table 1, it is readily apparent that all researchers were qualified professionals and many of them practitioners in the paramedical careers to which they were assigned investigation responsibilities.

The size of the sample in each of the paramedical programs researched was difficult to determine because there were many educational programs operating in some paramedical career fields and few in others. Another factor which required consideration in this regard was the similarity of many paramedical programs. This similarity was due to accrediting criteria set up by national

TABLE 2

RESEARCH ASSIGNMENTS TO MEMBERS OF THE PARAMEDICAL CURRICULUM ADVISORY COMMITTEE

NAME	PARAMEDICAL CAREERS RESEARCHED
Floretta S. Awe, R.N.	Two-year Registered Nurse
Carl R. Bjorklund, M.D.	Physical Therapist; Occupational Therapist; Physical Therapy Assistant; Occupational Therapy Assistant
Vurlyne E. Boan, R.N.	Three-year Registered Nurse; Medical Secretary
Sister Mary Christina, R.N., Ph.D.	Three-year Registered Nurse
Richard Harms, R.P.T.	Physical Therapist; Occupational Therapist; Physical Therapy Assistant; Occupational Therapy Assistant
Clyde C. Hollister, R.T., B.Sc.	Radiologic Technologist; Radioisotope Technician
Shirley Mannion, R.N.	Medical Assistant; Licensed Practical Nurse; Nurse Aide
William T. Northey, Ph.D.	Medical Technologist; Laboratory Assistant
Charles Purtymun, D.M.D.	Dental Hygienist; Dental Technician; Dental Assistant
James J. Riordan, M.D.	Radiologic Technologist; Radioisotope Technician
Samuel Runyon, A.R.I.T.	Inhalation Therapy
Mildred B. Welnick, R.R.L.	Medical Record Librarian; Medical Record Technician

associations for some paramedical careers and by the Council on Medical Education of the American Medical Association. The criteria of minimum essentials for Accreditation by these associations has tended to standardize, to some extent, the 10 approved training programs for three-year, two-year, and licensed practical nurses, medical technologists, radiologic technologists, medical record librarians, medical record technicians, occupational therapists, physical therapists, and inhalation therapists.[4] A great number of paramedical trainees in many of the 20 careers investigated were receiving an education in programs which were not accredited by these national associations. Educational programs for many of the paramedical careers requiring fewer skills and less time in preparation, than the 10 mentioned above, varied greatly in content, depth, time, and standards. It was difficult, therefore, to make comparisons between the non-accredited paramedical programs studied and even more difficult to make comparisons between and among all of the 20 different paramedical careers researched. For these reasons and others, such as limitations of time and funds, each researcher on the Paramedical Curriculum Advisory Committee Workshop staff was asked to study the educational programs of at least 10 different training institutions in as many different geographical, metropolitan areas.

It was agreed that each curriculum analyst would have to carefully make professional and experiential judgments in the process of gathering, analyzing, classifying, and interpreting data in his paramedical specialty. The personnel involved in this research activity, as noted in Table 2, were qualified to research in the paramedical fields studied. The extreme specialization of certain paramedical fields necessitated involving such curricular analysts from such fields in gathering, analyzing, classifying, and interpreting data. Consistency in interpretation of data was aided by scheduled workshop meetings. Discussion at such meetings resulted in a general consensus relative to the subject classification of different course titles and the interpretation of courses of study. The final subject classifications and interpretations made by the curricular analysts were used as input data for analyses by the computer. The computer was programmed to select and print out the courses required in each paramedical career program, the courses common to various paramedical programs, and finally, the extent and nature of the commonality of such courses in the various paramedical career programs. Conclusions and recommendations were drawn from this data as basic information to the writings of program guidelines for the preparation of paramedical practitioners. Table 3 presents, in diagrammatic form, the research design and procedures utilized in this investigation. Table 4 reveals the names and locations of the various 110 training institutions from which researchers on the Paramedical Curriculum Advisory Committee Workshop staff obtained programs for study and analysis. One hundred twenty-six paramedical education programs were secured for analysis by the various members of the Workshop staff from more than 300 contacts with training institutions. The 126 educational programs analyzed represented 110 training institions in metropolitan areas, for the most part, within 36 different states of the United States. Satisfactory geographical distribution was obtained.

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[4] "Education Programs in Areas Allied to Medicine", Journal of the American Medical Association, Volume 194, Number 7, November 15, 1965.

The Paramedical Curriculum Advisory Committee Workshop staff met in weekly scheduled evening sessions to make plans, report progress, and to analyze and consolidate data collected. Instruments utilized to consolidate and record analyses and interpretations of paramedical education programs were prepared in the first meeting of the Workshop staff. These data collection instruments are included in Appendices A, B, and C of this report. An examination of these appendices will show that the researcher secured information as

TABLE III

RESEARCH DESIGN AND PROCEDURES

DESCRIPTIVE METHOD--COMMUNITY COOPERATION IN ACTION RESEARCH

INPUT - (Programs of study collected in the various paramedical fields. Curricular analysts requested these programs from existing training institutions.)

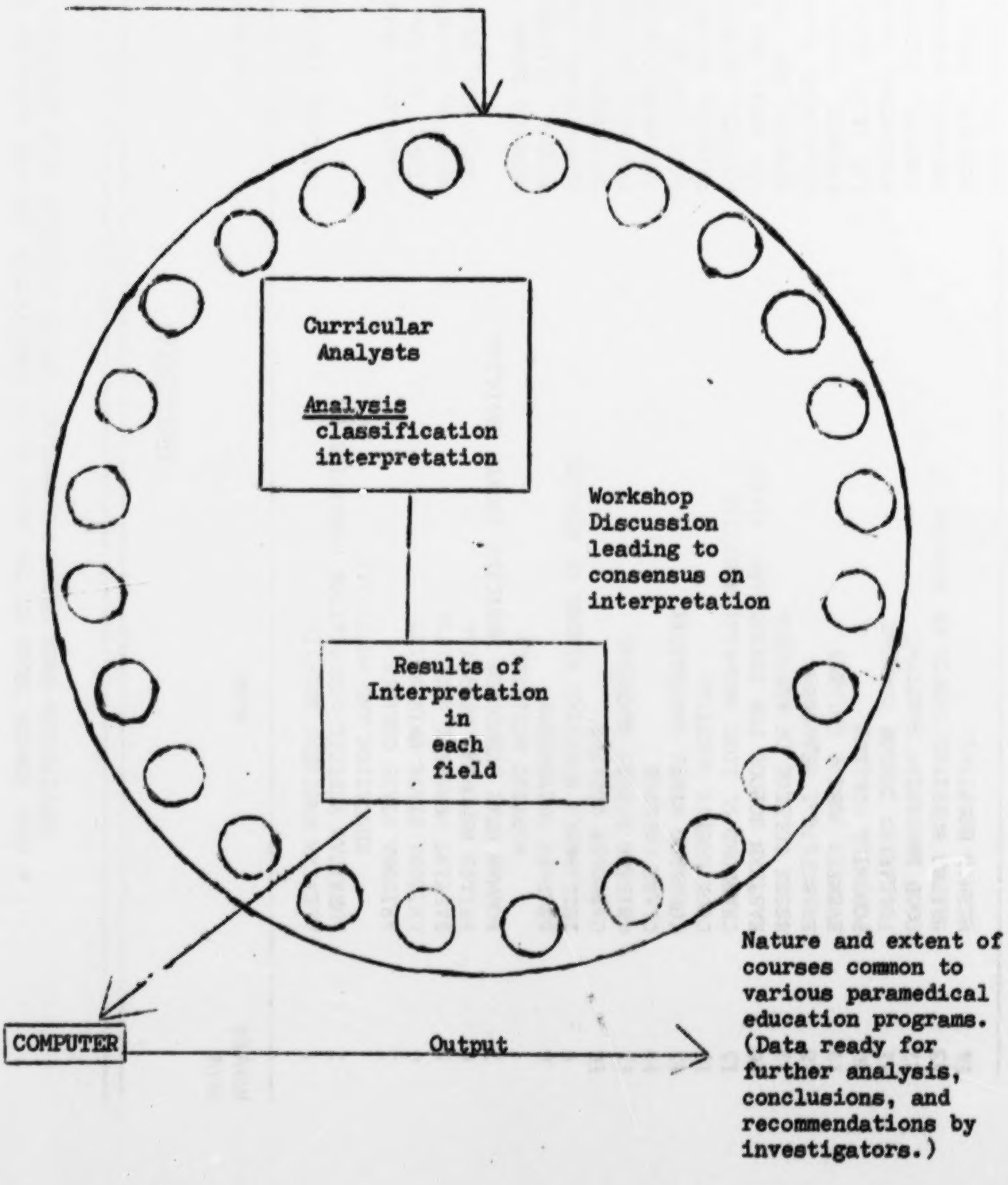
Curricular Analysts
Analysis
classification
interpretation
Workshop Discussion leading to consensus on interpretation
Results of Interpretation in each field
COMPUTER
Output
Nature and extent of courses common to various paramedical education programs. (Data ready for further analysis, conclusions, and recommendations by investigators.)

TABLE 4

A CODE NUMBER INDEX TO THE NAME OF AN INSTITUTION AND THE LEVEL OF THAT INSTITUTION FROM WHICH PARAMEDICAL CAREER PROGRAMS WERE ANALYZED

CODE NUMBER	INSTITUTION NAME	 LOCATION	LEVEL*
1	ALEXIAN BROTHERS HOSPITAL	CHICAGO, ILLINOIS	3
2	AMERICAN MEDICAL ASSOCIATION COMMITTEE ON EDUCATION AND HOSPITALS		5
3	ARIZONA STATE COLLEGE	FLAGSTAFF, ARIZONA	1
4	ARIZONA STATE UNIVERSITY	TEMPE, ARIZONA	1
5	BAPTIST MEMORIAL HOSPITAL	MEMPHIS, TENNESSEE	3
6	BELLIN MEMORIAL HOSPITAL	GREEN BAY, WISCONSIN	3
7	BOWMAN GRAY SCHOOL OF MEDICINE (NORTH CAROLINA BAPTIST HOSPITAL)	WINSTON SALEM, NORTH CAROLINA	3
8	BRADLEY UNIVERSITY	PEORIA, ILLINOIS	1
9	BURLINGTON HOSPITAL SCHOOL OF NURSING	BURLINGTON, IOWA	3
10	CARNEGIE COLLEGE	CLEVELAND, OHIO	2
11	CHICAGO WESLEY MEMORIAL	CHICAGO, ILLINOIS	3
12	CLARK COLLEGE	VANCOUVER, WASHINGTON	2
13	COLORADO STATE UNIVERSITY	FORT COLLINS, COLORADO	1
14	COOK COUNTY HOSPITAL	CHICAGO, ILLINOIS	3
15	CRAWFORD W. LONG MEMORIAL HOSPITAL	ATLANTA, GEORGIA	3
16	EASTERN SCHOOL FOR PHYSICIANS' AIDES	NEW YORK, NEW YORK	5
17	ESSEX COLLEGE OF BUSINESS	NEWARK, NEW JERSEY	5
18	EVANGELICAL DEACONESS	MILWAUKEE, WISCONSIN	5
19	EVERETT JUNIOR COLLEGE	EVERETT, WASHINGTON	2
20	FOOTHILL COLLEGE	LOS ALTOS HILLS, CALIFORNIA	2
21	FULLERTON JUNIOR COLLEGE	FULLERTON, CALIFORNIA	2
22	GOOD SAMARITAN HOSPITAL	PHOENIX, ARIZONA	3
23	HARPER HOSPITAL SCHOOL OF NURSING	DETROIT, MICHIGAN	3
24	HERMAN HOSPITAL	HOUSTON, TEXAS	3

*LEVELS: 1 = University; 2 = Junior College; 3 = Hospital; 4 = High School; 5 = Other Institutions

CODE NUMBER	INSTITUTION		LEVEL
	NAME	LOCATION	
25	HILLCREST MEDICAL CENTER	TULSA, OKLAHOMA	3
26	HOMER G. PHILLIPS HOSPITAL	ST. LOUIS, MISSOURI	3
27	IDAHO STATE UNIVERSITY	POCATELLO, IDAHO	1
28	INDIANA UNIVERSITY	BLOOMINGTON, INDIANA	1
29	KNAPP COLLEGE OF NURSING	SANTA BARBARA, CALIFORNIA	3
30	LOMA LINDA UNIVERSITY	LOMA LINDA, CALIFORNIA	1
31	LONG BEACH CITY COLLEGE	LONG BEACH, CALIFORNIA	1
32	LOS ANGELES VALLEY COLLEGE	VAN NUYS, CALIFORNIA	1
33	MEDICAL COLLEGE HOSPITAL	CHARLESTON, SOUTH CAROLINA	1
34	MEDICAL COLLEGE OF VIRGINIA	RICHMOND, VIRGINIA	1
35	MERCY COLLEGE OF NURSING	SAN DIEGO, CALIFORNIA	1
36	MICHAEL REESE HOSPITAL AND MEDICAL CENTER	CHICAGO, ILLINOIS	3
37	MICHIGAN STATE UNIVERSITY	EAST LANSING, MICHIGAN	1
38	MONMOUTH MEMORIAL HOSPITAL	LONG BRANCH, NEW JERSEY	3
39	MOUNT MERCY COLLEGE	PITTSBURGH, PENNSYLVANIA	1
40	MOUNT SINAI	NEW YORK CITY, NEW YORK	3
41	NEWPORT HOSPITAL	NEWPORT, RHODE ISLAND	3
42	O'CONNOR HOSPITAL SCHOOL OF NURSING	SAN JOSE, CALIFORNIA	3
43	ORANGE COAST COLLEGE	COSTA MESA, CALIFORNIA	2
44	OTTUMWA HEIGHTS	OTTUMWA, IOWA	1
45	OUR LADY OF THE LAKE	BATON ROUGE, LOUISIANA	3
46	PHOENIX JUNIOR COLLEGE	PHOENIX, ARIZONA	1
47	PHOENIX UNION HIGH SCHOOL	PHOENIX, ARIZONA	4
48	POINT PARK JUNIOR COLLEGE	PITTSBURGH, PENNSYLVANIA	2
49	PROVIDENCE HOSPITAL	SEATTLE, WASHINGTON	3
50	QUEEN OF ANGELS HOSPITAL	LOS ANGELES, CALIFORNIA	3
51	RICHMOND PROFESSIONAL INSTITUTE	RICHMOND, VIRGINIA	5
52	SACRED HEART DOMINICAN COLLEGE (ST. JOSEPH'S HOSPITAL)	HOUSTON, TEXAS	3
53	SCHWEITER SCHOOL	WICHITA, KANSAS	5
54	SPRINGFIELD TECHNICAL INSTITUTE	SPRINGFIELD, MASSACHUSETTS	5
55	SOUTHWEST PREPARATORY	PHOENIX, ARIZONA	5
56	ST. CLARE'S HOSPITAL	ALLEGANY, NEW YORK	3
57	ST. LUKE'S HOSPITAL	KANSAS CITY, MISSOURI	3

CODE NUMBER	INSTITUTION		LEVEL
	NAME	LOCATION	
58	ST. JOSEPH'S HOSPITAL	PHOENIX, ARIZONA	3
59	ST. JOSEPH'S HOSPITAL	MOUNT CLEMENS, MICHIGAN	3
60	ST. PETERSBURG JUNIOR COLLEGE	ST. PETERSBURG, FLORIDA	2
61	ST. VINCENT'S HOSPITAL	LOS ANGELES, CALIFORNIA	3
62	SWEDISH COVENANT HOSPITAL	CHICAGO, ILLINOIS	3
63	TUFTS UNIVERSITY	MEDFORD, MASSACHUSETTS	1
64	THOMPSON INSTITUTE	HARRISBURG, PENNSYLVANIA	5
65	UNIVERSITY OF ARIZONA	TUCSON, ARIZONA	1
66	UNIVERSITY OF CALIFORNIA	BERKELEY, CALIFORNIA	1
67	UNIVERSITY OF CALIFORNIA AT LOS ANGELES	LOS ANGELES, CALIFORNIA	1
68	UNIVERSITY OF FLORIDA	GAINSEVILLE, FLORIDA	1
69	UNIVERSITY OF ILLINOIS	URBANA, ILLINOIS	1
70	UNIVERSITY OF KANSAS	LAWRENCE, KANSAS	1
71	UNIVERSITY OF MARYLAND	COLLEGE PARK, MARYLAND	1
72	UNIVERSITY OF MICHIGAN	ANN ARBOR, MICHIGAN	1
73	UNIVERSITY OF MISSOURI	COLUMBIA, MISSOURI	1
74	UNIVERSITY OF NEW MEXICO	ALBUQUERQUE, NEW MEXICO	1
75	UNIVERSITY OF NORTH CAROLINA	CHAPEL HILL, NORTH CAROLINA	1
76	UNIVERSITY OF PACIFIC	FOREST GROVE, OREGON	1
77	UNIVERSITY OF SOUTHWESTERN LOUISIANA	LAFAYETTE, LOUISIANA	1
78	UNIVERSITY OF WISCONSIN	MADISON, WISCONSIN	1
79	VITERBO COLLEGE (ST. FRANCIS HOSPITAL)	LA CROSSE, WISCONSIN	3
80	WASHINGTON UNIVERSITY	SEATTLE, WASHINGTON	1
81	WEBER STATE COLLEGE	OGDEN, UTAH	1
82	YALE UNIVERSITY	NEW HAVEN, CONNECTICUT	1
83	ZWEEGMAN SCHOOL	SAN FRANCISCO, CALIFORNIA	5
84	NATIONAL OFFICE		5
85	MEDICAL COLLEGE OF GEORGIA	AUGUSTA, GEORGIA	5
86	EMORY UNIVERSITY HOSPITAL	ATLANTA, GEORGIA	3
87	KRESS SCHOOL OF PRACTICAL NURSING (PIMA COUNTY GENERAL HOSPITAL)	TUCSON, ARIZONA	3
88	COCHISE JUNIOR COLLEGE	DOUGLAS, ARIZONA	2
89	DAYTON, OHIO SCHOOL OF PRACTICAL NURSING	DAYTON, OHIO	3

CODE NUMBER	INSTITUTION		
	NAME	LOCATION	LEVEL
90	SAINT ANTHONY HOSPITAL SCHOOL OF PRACTICAL NURSING	DENVER, COLORADO	3
91	MESA JUNIOR COLLEGE	MESA, ARIZONA	2
92	MERCY CENTRAL SCHOOL OF PRACTICAL NURSING	SPRINGFIELD, OHIO	3
93	PIERRE SCHOOL OF PRACTICAL NURSING	PIERRE, SOUTH DAKOTA	5
94	ARIZONA STATE HOSPITAL	PHOENIX, ARIZONA	3
95	STATE UNIVERSITY OF NEW YORK AT BUFFALO	BUFFALO, NEW YROK	1
96	HENDRICK MEMORIAL HOSPITAL	ABILENE, TEXAS	3
97	SINAI HOSPITAL OF BALTIMORE	BALTIMORE, MARYLAND	3
98	SPOKANE COMMUNITY COLLEGE	SPOKANE, WASHINGTON	2
99	ST. JOSEPH'S HOSPITAL	LOWELL, MASSACHUSETTS	3
100	INCARNATE WORD COLLEGE (SANTA ROSA MEDICAL CENTER)	SAN ANTONIO, TEXAS	1
101	MADISON SANATORIUM AND HOSPITAL	MADISON, WISCONSIN	3
102	ST. MARGARET'S HOSPITAL	HAMMOND, INDIANA	3
103	CITY COLLEGE OF SAN FRANCISCO	SAN FRANCISCO, CALIFORNIA	2
104	STANFORD UNIVERSITY (STANFORD MEDICAL CENTER)	STANFORD, CALIFORNIA	1
105	ST. LOUIS UNIVERSITY	ST. LOUIS, MISSOURI	1
106	DUKE UNIVERSITY MEDICAL CENTER	DURHAM, NORTH CAROLINA	1
107	MISERICORDIA HOSPITAL	PHILADELPHIA, PENNSYLVANIA	3
108	DOCTORS HOSPITAL	CLEVELAND HEIGHTS, OHIO	3
109	TUCSON SCHOOL DISTRICT NO. 1	TUCSON, ARIZONA	5
110	PIMA COUNTY GENERAL HOSPITAL, TUCSON	TUCSON, ARIZONA	3

to the level of education (high school, post-high school, junior college, university, or other) at which courses in a given paramedical career were offered in each institution, the titles of the courses required before and after admission to the program, and the depth of content in each subject discipline as revealed by the number of clock hours devoted to classroom lecture work, laboratory experience, directed clinical practice, and total clock hours for each course title. Clock hours were regarded as the best measure of study since practices in the allowance of semester or quarter hours of credit varied widely among the training institutions for comparable clock hours spent in the study of a given subject. Reports recorded on the various instruments utilized for the collection of data were made available to key-punch operators who prepared data cards for the computer. Appendix D, PMRP Form 4, "First Progress Report" was used by the researchers in making progress reports of the analysis and interpretation of educational programs at the half-way point in the study. These reports assisted the Principal Investigator and the Workshop staff in preparing The First Progress Report for the United States Office of Education. Appendix E, PMRP Form 5, was used by the researchers to keep a record of resource materials secured from the various paramedical education institutions contacted.

The curriculum content analysts and the curriculum development specialists on the Workshop Advisory Committee gave special attention to the educational programs in the various institutions in the Phoenix area. Because of familiarity with these programs and easy access to information concerning them, they were used by the researchers as bases for comparison with programs from institutions in other parts of the United States. Requests for additional information were made by the Research Assistant with several paramedical education centers including the College of Health Related Professions at the University of Florida; the Junior College at

St. Louis; St. Mary's Junior College in Minneapolis; Bronx Community College; Chicago City Junior College; Technical and Vocational Centers in Springfield, Massachusetts, Madison, Wisconsin, and Pittsburgh, Pennsylvania; as well as the private medical center of North Carolina Baptist Hospital, Winston-Salem, North Carolina.

Many curricular materials such as catalogs, syllabi, brochures, library materials, course descriptions, pamphlets from training institutions, information concerning national requirements for accreditation of paramedical careers, course guides and communication were collected in the progress of the study. All of these materials were classified and made available to the Committee in its regular Workshop meetings. Records of these resource materials were made on the data collection instrument PMRP Form 5 "Resource Materials" shown in Appendix E of this report.

Throughout the progress of the study, advice and service was available from the several curriculum development specialists and curricular analysts whose names and official positions are listed in Table 1, "Paramedical Curriculum Advisory Committee". In addition to the curricular analysts and the curriculum development specialists, it should be noted that an architectural consultant, Paul Crosier of Busby Associates, met with the Workshop group to audit the procedures of the study for his orientation and to offer professional advice which might later help to coordinate curriculum development with facilities planning.

CHAPTER III

THE PRESENTATION AND INTERPRETATION OF DATA

The Paramedical Career Programs Analyzed

It was reported in Chapter II on Research Design and Procedures that 126 paramedical programs from 110 different training institutions in 20 paramedical occupations were analyzed. Problems of determining the size of the sample for each of the 20 paramedical programs being researched were discussed. It was decided, however, that each curricular analyst should obtain and analyze at least 10 programs in the paramedical field(s) assigned to him in 10 different training centers that preferably were located in metropolitan areas. Table 5 shows the number of programs finally analyzed in each of the 20 paramedical careers studied and the number of contacts made with training institutions by the curricular analysts on the Paramedical Curriculum Advisory Committee Workshop staff in order to obtain the 126 programs. The curricular analysts examined eight or more programs from different training institutions in each of the following careers: three-year registered nurse, two-year registered nurse, licensed practical nurse, medical technologist, medical secretary, physical therapist, inhalation therapist, and medical record librarian. In some of the other careers only limited numbers of organized, well-defined programs were available for analysis. Only one organized program was analyzed for the dental technician and the physical therapy assistant; two organized programs were obtained for nurse aide, dental assistant, occupational therapist, and medical records technician, although as Table 5 indicates, a greater number of contacts were made in attempts to locate planned, organized programs in these paramedical careers.

TABLE 5

PARAMEDICAL CAREER PROGRAMS ANALYZED FROM 110 INSTITUTIONS

Career Number	Career Title	Institutions Contacted	Programs Analyzed
1	Three-year Registered Nurse	23	18
2	Two-year Registered Nurse	17	11
3	Licensed Practical Nurse	18	9
4	Nurse Aide	28	2
5	Dental Assistant	17	2
6	Medical Technologist	22	12
7	Medical Secretary	14	9
8	Radiologic Technologist	4	3
9	Dental Hygienist	14	4
10	Dental Technician	14	1
11	Physical Therapist	10	9
12	Physical Therapy Assistant	4	1
13	Occupational Therapist	7	7
14	Occupational Therapy Assistant	11	2
15	Inhalation Therapist	14	8
16	Medical Assistant	18	4
17	Laboratory Assistant	12	4
18	Medical Record Librarian	35	15
19	Medical Record Technician	13	2
20	Radioisotope Technician	3	3
		298	126

Code Number Index to the Subject Classifications in 20 Paramedical Careers

Data concerning the 126 programs were analyzed and recorded upon the gathering and collection instruments shown in Appendices A, B, and C. From the gathering and collection instruments the data was transferred by key punch operators to computer data cards. The analysis of the 126 paramedical programs for all the careers studied yielded 2,613 separate courses which were classified into general subject classifications by the curricular analysts. Table 6 presents a code number index to the subject classifications into which the 2,613 separate courses were assigned. The curriculum analysts in each field had considerable difficulty in assigning a number of courses to certain subject classifications for a variety of reasons. In some instances the courses examined partook of the nature and scope of more than one subject classification. In other cases the limited description accompanying a particular course made it necessary for the curricular analysts to use their professional and experiential judgments in assigning such a course to a subject classification.

Three of the 126 general subject classifications need especial explanation. Code number 0 listed in Table 6 as "Uncommon Courses" was a classification assigned to course titles which were required in only one of the programs of a given paramedical career. In other words, such courses were not like any other course in that career field. Code number 124 listed in Table 6 as "General Education" was a classification assigned to course titles which the curriculum analyst in a particular field did not regard as a part of the technical training for that career. This classification, in general, included courses offered in the areas of communications, humanities, behavioral and social

TABLE 6

CODE NUMBER INDEX TO THE SUBJECT CLASSIFICATION IN 20 PARAMEDICAL CAREERS

Code Number	Subject Classification
0	Uncommon Courses
1	Nursing Fundamentals
2	Nursing Trends
3	Anatomy
4	Anatomy and Physiology
5	Chemistry, General
6	Human Growth and Development
7	Nursing
8	Nursing, Clinical Conference
9	Clinical Practice, Nursing
10	Physiology
11	Nursing, Medical Surgical
12	Vocational Relationships
13	Ethics, Professional
14	Nutrition
15	Mathematics
16	Psychology, General
17	Health, Personal and Community
18	Human Relationships
19	Sociology
20	Microbiology
21	Pediatrics
22	Nursing, Psychiatric
23	Obstetrics
24	Pharmacology
25	Theology
26	Dietetics
27	First Aid
28	Botany
29	Physics
30	Zoology
31	Nursing, Geriatrics
32	Nursing, Procedures
33	Office Training and Management
34	Psychology, Applied
35	Terminology, Dental
36	Dental Assisting
37	Chemistry, Quantitative
38	Chemistry, Qualitative
39	Chemistry, Organic
40	Chemistry, Inorganic
41	Biochemistry
42	Clinical Laboratory Problems, Medical Technologist
43	Histology
44	Immunology
45	Laboratory Techniques, Medical Technologist

Code Number	Subject Classification
46	Urinalysis
47	Blood Bank
48	Cytology
49	Electrocardiograph (EKG)
50	Hematology
51	Micro-technique, Medical Technology
52	Parasitology
53	Pathology
54	Serology
55	Virology
56	Accounting
57	Anatomy - Physics
58	Business Correspondence
59	Shorthand, General and Medical
60	Filing
61	Office Machines
62	Office Practice
63	Secretarial Practice and Procedures
64	Terminology, Medical
65	Typing
66	Economics
67	Medical Science Conferences
68	Administration, Departmental
69	Film Critique
70	Darkroom Chemistry and Technique
71	Diseases, Medical Surgical
72	Equipment, Radiology
73	Radiation Therapy
74	Radiation Safety
75	Radiographic Exposure Techniques
76	Radiographic Positioning
77	Radiographic Procedures
78	Radiography, Intra-Oral
79	Radiography, Pediatrics
80	Radiology, Nursing Procedures
81	Radiation Physics
82	Radiation Therapy
83	Radiographic Isotopes
84	Anesthesia
85	Dental Anatomy
86	Clinical Practice, Dental
87	Dental Health
88	Orientation, Dental
89	Dental Materials
90	Physical Agents, Physical Therapy
91	Neurology
92	Clinical Assignment, Physical Therapy

Code Number	Subject Classification
93	Organization & Administration, Physical Therapy
94	Orientation, Physical Therapy
95	Physical Therapy
96	Therapeutic Exercise
97	Orientation, Occupational Therapy
98	Handcrafts
99	Occupational Therapy
100	Principles & Practices, Occupational Therapy
101	Kinesiology
102	Organization & Administration, Occup.Therapy
103	Physical Disabilities
104	Clinical Assignment, Occupational Therapy
105	Tests and Measurement, Physical
106	Organization & Administration, Inhalation Ther.
107	Equipment Operation, Inhalation Therapy
108	Clinical Practice, Inhalation Therapy
109	Inhalation Therapy
110	Orientation, Inhalation Therapy
111	Orientation, Medical Assistant
112	Basal Metabolism Rate (BMR)
113	Laboratory Assistant Responsibilities
114	Organization & Adm., Medical Record Librarian
115	Directed Practice, Medical Record Librarian
116	Medical Record Science, Medical Record Libr.
117	Medical Record Science, Fundamentals
118	Medical Record Science, Legal Aspects
119	Clinical Practice, Radioisotope Technician
120	Diagnostic Procedures, Radioisotope Technician
121	Instrumentation, Radioisotope Technician
122	Radiobiology, Radioisotope Technician
123	Mathematics, Radiological
124	General Education
125	Electives

sciences, sciences and mathematics (where not regarded as part of the technical training), and physical education. Some courses listed as "General Education" in one paramedical career might appropriately be classified by a curricular analyst as technical training in another field. Code number 125 listed in Table 6 as "Electives" was used for the assignment of all course titles identified as electives. In some programs these courses were not identified by title, but simply by the word "elective(s)" with the number of semester or quarter hours of credit required.

It was desirable in this study to assign, and thus reduce, the 2,613 separate course title entries for the 126 programs analyzed to as small a number of broad-field subject classifications as possible and yet still have each subject classification easily recognizable as a separate subject of specific content.

The Listing of Courses Reported in the Survey of 20 Paramedical Careers Grouped According to Subject Classifications

Table 7 is a computer print-out listing of all 126 subject classifications for all of the 20 paramedical careers with the various course titles assigned to each subject classification occurring within a given paramedical field. Consider Career Number One, Three-Year Registered Nurse, as an example. Under this paramedical career are listed, by code number, separate subject classifications as follow:

1. Nursing Fundamentals
2. Nursing Trends
3. Anatomy
4. Anatomy and Physiology
5. Chemistry, General
6. Human Growth and Development
7. Nursing
8. Nursing, Clinical Conference
9. Nursing, Clinical Practice
10. Physiology
11. Nursing, Medical Surgical
13. Ethics, Professional
14. Nutrition
15. Psychology, General
16. Health, Personal and Community
18. Human Relationships
19. Sociology
20. Microbiology
21. Pediatrics
22. Nursing, Psychiatric

23. Obstetrics
24. Pharmacology
25. Theology
27. First Aid
29. Physics
31. Nursing, Geriatrics
124. General Education
125. Electives

Columns 2, 3, 4, and 5 of Table 7 show the number of clock hours devoted respectively to each separate course in lecture, laboratory, clinical practice, and total clock hours as reported by the various training institutions. For uniformity and consistency the curricular analysts all interpreted one semester hour as equivalent to 15 clock hours and one quarter hour as equivalent to 10 clock hours.

As an example, in Table 7, under the Subject Classification Number 1, "Nursing Fundamentals", of the three-year registered nurse career, consider the first course title, "Adjustment, Professional 1". The institution reporting this course indicated only that a total of 24 total clock hours were spent in lecture, laboratory, or clinical practice or whether part of the 24 hours was spent in each kind of training experience. In the second entry under "Nursing Fundamentals" the course title was listed by the training institution as "Nursing Fundamentals." The computer record in this case shows that students in the three-year registered nurse career are required to devote 408 clock hours to this particular course. Of the total 408 hours required in nursing fundamentals the student is required to spend 48 hours in lecture, no hours in laboratory work, and 360 hours in clinical practice or directed work experience.

Column 6 ("Inst"), Table 7 indicates the code number for the institution. By referring to Table 4 again it can be seen that Institution Number 1 is Alexian Brothers Hospital in Chicago Illinois. Both the course in "Adjustments, Professional 1" and "Nursing Fundamentals" are requirements in this same training institution. In column 7,

TABLE 7

A LISTING OF COURSES REPORTED IN THE SURVEY OF 20 PARAMEDICAL CAREERS

GROUPED ACCORDING TO SUBJECT CLASSIFICATIONS

THREE-YEAR REGISTERED NURSE

CAREER NUMBER 1

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
✓1 NURSING, FUNDAMENTALS							
ADJUSTMENTS PROFESSIONAL 1	0	0	0	24	1	1	3
NURSING FUNDAMENTALS	48	0	360	408 } 432	1	1	3
NURSING ORIENTATION	76	0	32	108	9	1	3
NURSING ORIENTATION	36	0	0	36	18	1	5
NURSING ORIENTATION	36	0	0	36 } 72	18	1	5
NURSING FUNDAMENTALS	130	15	0	145	23	1	3
ADJUSTMENT PROFESSIONAL	18	0	0	18	29	1	3
ADJUSTMENT PROFESSIONAL	22	0	0	22	36	1	3
NURSING FUNDAMENTALS	45	0	30	75	40	1	1
NURSING FUNDAMENTALS	10	62	0	72	42	1	3
NURSING FUNDAMENTALS	26	10	0	36 } 108	42	1	3
NURSING FUNDAMENTALS	0	0	0	0	42	1	3
RELATIONSHIPS PROFESSIONAL 1	36	0	0	36	50	1	3
RELATIONSHIPS PROFESSIONAL 2	36	0	0	36 } 108	50	1	3
RELATIONSHIPS PROFESSIONAL 3	36	0	0	36	50	1	3
ADJUSTMENTS PROFESSIONAL 1	10	0	0	10	56	1	3
NURSING FUNDAMENTALS	48	48	0	96	58	1	3
NURSING FUNDAMENTALS	48	48	0	96 } 340	58	1	3
NURSING FUNDAMENTALS	56	48	0	104	58	1	3
NURSING FUNDAMENTALS	56	48	0	104	58	1	3
ORIENTATION, BASIC	75	0	0	75	58	1	3

THREE-YEAR REGISTERED NURSE, CONTINUED

CAREER NUMBER 1

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
1	NURSING, FUNDAMENTALS, CONTINUED							
	NURSING FUNDAMENTALS	30	0	54	84	61	1	3
✓2	NURSING TRENDS							
	NURSING HISTORY OF LEGAL ASPECTS	0	0	0	42	1	1	3
	NURSING TRENDS 1	28	0	0	28} 72	11	1	3
	NURSING TRENDS 2	44	0	0	44}	11	1	3
	NURSING SURVEY OF	24	0	0	24} 56	18	1	5
	NURSING TRENDS	32	0	0	32}	18	1	5
	NURSING TRENDS	24	0	0	24	22	1	3
	NURSING TRENDS	15	0	0	15	23	1	3
	NURSING TRENDS	18	0	0	18	29	1	3
	PROFESSIONAL DEVELOPMENT	30	0	0	30} 60	40	1	1
	PROFESSIONAL TRENDS	30	0	0	30}	40	1	1
	NURSING TRENDS	45	0	0	45	41	1	3
	PROFESSIONAL TRENDS	24	0	0	24} 48	42	1	3
	PROFESSIONAL TRENDS	24	0	0	24}	42	1	3
	ADJUSTMENTS PROFESSIONAL 2	10	0	0	10} 20	56	1	3
	ADJUSTMENTS PROFESSIONAL 3	10	0	0	10}	56	1	3
	NURSING TRENDS	32	0	0	32} 64	58	1	3
	NURSING TRENDS	32	0	0	32}	58	1	3
	NURSING TRENDS	16	0	0	16} 32	61	1	3
	NURSING, HISTORY OF	16	0	0	16}	61	1	3
✓3	ANATOMY							
	ANATOMY	32	48	0	80} 160	4	1	3
	ANATOMY	32	48	0	80}	4	1	3
	ANATOMY	57	0	0	57	9	1	2
	ANATOMY	62	0	0	62	11	1	1
	ANATOMY	0	0	0	0	50	1	1
	ANATOMY	48	48	0	96} 192	58	1	2
	ANATOMY	48	48	0	96}	58	1	2
	ANATOMY	32	48	0	80	61	1	1
✓4	ANATOMY AND PHYSIOLOGY							
	ANATOMY AND PHYSIOLOGY 1	0	0	0	48} 120	1	1	3
	ANATOMY AND PHYSIOLOGY 2	0	0	0	36}	1	1	3
	ANATOMY AND PHYSIOLOGY 3	0	0	0	36}	1	1	3
	SCIENCE BASIC	57	0	0	57	9	1	2
	ANATOMY AND PHYSIOLOGY	0	0	0	112	18	1	2
	SCIENCE NATURAL	230	10	0	240	23	1	3
	ANATOMY AND PHYSIOLOGY	54	108	0	162	29	1	2
	ANATOMY AND PHYSIOLOGY	54	72	0	126	35	1	1
	ANATOMY AND PHYSIOLOGY 1	23	15	0	38	36	1	3

THREE-YEAR REGISTERED NURSE, CONTINUED

CAREER NUMBER 1

	LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
.4 ANATOMY AND PHYSIOLOGY, CONTINUED								
ANATOMY AND PHYSIOLOGY 2	29	11	0	40	80	36	1	3
ANATOMY AND PHYSIOLOGY 3	31	9	0	40		36	1	3
ANATOMY AND PHYSIOLOGY	32	32	0	64	128	38	1	1
ANATOMY AND PHYSIOLOGY	32	32	0	64		38	1	1
ANATOMY AND PHYSIOLOGY 1	40	0	0	40	160	40	1	1
ANATOMY AND PHYSIOLOGY 2	40	0	0	40		40	1	1
ANATOMY AND PHYSIOLOGY 3	40	0	0	40		40	1	1
ANATOMY AND PHYSIOLOGY 4	40	0	0	40		40	1	1
SCIENCE 1	66	0	0	66	210	41	1	3
SCIENCE 2	66	0	0	66		41	1	3
SCIENCE 3	38	0	0	38		41	1	3
SCIENCE 4	40	0	0	40		41	1	3
ANATOMY AND PHYSIOLOGY	120	0	0	120		42	1	1
SCIENCE 1	95	0	0	95	225	56	1	3
SCIENCE 2	75	0	0	75		56	1	3
SCIENCE 3	55	0	0	55		56	1	3
✓5 CHEMISTRY, GENERAL								
CHEMISTRY 1	0	0	0	24	72	1	1	3
CHEMISTRY 2	0	0	0	48		1	1	3
CHEMISTRY	64	0	0	64		11	1	1
CHEMISTRY	0	0	0	80		18	1	2
CHEMISTRY	33	0	0	33		36	1	3
CHEMISTRY	32	32	0	64		38	1	1
✓6 HUMAN GROWTH AND DEVELOPMENT								
PSYCHOLOGY GROWTH DEVELOPMENT	48	0	0	48		4	1	3
CHILD GROWTH AND DEVELOPMENT	54	0	0	54		9	1	2
CHILD GROWTH AND DEVELOPMENT	36	0	0	36		35	1	1
CHILD GROWTH AND DEVELOPMENT	36	0	0	36		36	1	3
HUMAN GROWTH AND DEVELOPMENT	48	0	0	48		38	1	1
PSYCHOLOGY DEVELOPMENTAL	32	0	0	32		61	1	3
✓7 NURSING								
GYNECOLOGY	0	0	60	60	165	1	1	3
NURSING, OCCUPATIONAL HEALTH	0	0	30	30		1	1	3
RECOVERY ROOM, PAST ANESTHETIC	0	0	30	30		1	1	3
REHABILITATION	0	0	45	45		1	1	3
NURSING 1	76	0	120	196	216	9	1	3
SEMINAR	20	0	0	20		9	1	3
NURSING 1 2 3	195	0	585	780	913	11	1	3
NURSING 1	22	0	12	34		11	1	3
NURSING 2	55	0	44	99		11	1	3

CAREER NUMBER 1

7 NURSING, CONTINUED

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
CIVIL DEFENSE AND DISASTER	0	0	0	20	18	1	5
INTRO. NURSING PHARM1 PHARM 2 COM SKILL	184	36	44	264	22	1	3
NURSING EMERGENCY	56	2	184	242 } 506	22	1	3
NURSING REHABILITATION	15	6	0	21	23	1	3
NURSING 1	90	36	72	198	29	1	3
NURSING 1	90	0	288	378	29	1	3
NURSING 2	45	0	144	189	29	1	3
NURSING 2	54	0	252	306	29	1	3
NURSING 2	54	0	252	306 } 3177	29	1	3
NURSING 2	54	0	252	306	29	1	3
NURSING 2	63	0	252	315	29	1	3
NURSING 3	36	0	288	324	29	1	3
NURSING 3	45	0	144	189	29	1	3
NURSING 3	90	0	576	666	29	1	3
NURSING 1	72	0	54	126	35	1	1
NURSING 2	54	0	270	324	35	1	1
NURSING 3	72	0	324	396 } 2106	35	1	1
NURSING 4	72	0	324	396	35	1	1
NURSING 5	54	0	378	432	35	1	1
NURSING 6	54	0	378	432	35	1	1
NURSING 1	54	0	20	74	36	1	3
NURSING 2	63	0	32	95 } 435	36	1	3
NURSING 3	64	0	70	134	36	1	3
NURSING 4	48	0	84	132	36	1	3
EXPERIENCE-GROUP NURSING	32	0	280	312	38	1	3
NURSING 1	64	0	96	160 } 632	38	1	3
NURSING 2	64	0	96	160	38	1	3
LONG TERM ILLNESS-NURSING	45	0	90	135 } 525	40	1	1
NURSING, OUT-PATIENT AND EMERGENCY	90	0	300	390	40	1	1
NURSING 1	96	0	70	166	41	1	3
NURSING 2	96	0	70	166 } 796	41	1	3
NURSING 3	72	0	160	232	41	1	3
NURSING 4	72	0	160	232	41	1	3
LONG TERM ILLNESS-NURSING	40	28	140	207 } 207	42	1	3
NURSING COMMUNITY HEALTH	0	0	0	0	42	1	3
NURSING 1	48	36	36	120 } 234	50	1	3
NURSING, C.D.	34	0	80	114	50	1	3

THREE-YEAR REGISTERED NURSE, CONTINUED

CAREER NUMBER 1

		LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
.8	NURSING, CLINICAL CONFERENCE								
	CLINICAL CONFERENCES	36	0	0	36		1	1	3
	CLINICAL CONFERENCES	0	0	0	36		1	1	3
	CLINICAL CONFERENCES	0	0	0	36		1	1	3
	CLINICAL CONFERENCES	0	0	0	36		1	1	3
	CLINICAL CONFERENCES	0	0	0	18	324	1	1	3
	CLINICAL CONFERENCES	0	0	0	36		1	1	3
	CLINICAL CONFERENCES	0	0	0	36		1	1	3
	CLINICAL CONFERENCES	0	0	0	36		1	1	3
	CLINICAL CONFERENCES	0	0	0	18		1	1	3
	CLINICAL CONFERENCES	0	0	0	36		1	1	3
.9	CLINICAL PRACTICE, NURSING								
	CLINICAL PRACTICE	0	0	0	72		1	1	3
	CLINICAL PRACTICE	0	0	0	192		1	1	3
	CLINICAL PRACTICE	0	0	0	96		1	1	3
	CLINICAL PRACTICE	0	0	0	120		1	1	3
	CLINICAL PRACTICE	0	0	0	324		1	1	3
	CLINICAL PRACTICE	0	0	324	324	3474	1	1	3
	CLINICAL PRACTICE	0	0	0	318		1	1	3
	CLINICAL PRACTICE	0	0	0	336		1	1	3
	CLINICAL PRACTICE	0	0	0	396		1	1	3
	CLINICAL PRACTICE	0	0	0	396		1	1	3
	CLINICAL PRACTICE	0	0	0	384		1	1	3
	CLINICAL PRACTICE	0	0	0	396		1	1	3
	CLINICAL PRACTICE	20	0	100	120		56	1	3
10	PHYSIOLOGY								
	PHYSIOLOGY	60	0	0	60		11	1	1
	PHYSIOLOGY	0	0	0	0		50	1	1
	PHYSIOLOGY	48	48	0	96	192	58	1	2
	PHYSIOLOGY	48	48	0	96		58	1	2
	PHYSIOLOGY	48	64	0	112		61	1	1
11	NURSING, MEDICAL SURGICAL								
	NURSING MEDICAL SURGICAL 1	0	0	0	54		1	1	3
	NURSING MEDICAL SURGICAL 2	0	0	0	54		1	1	3
	NURSING MEDICAL SURGICAL 3	48	0	165	213		1	1	3
	NURSING MEDICAL SURGICAL 3	0	0	0	48	1576	1	1	3
	NURSING MEDICAL SURGICAL 4	0	0	0	48		1	1	3
	NURSING MEDICAL SURGICAL 5	0	0	0	48		1	1	3
	NURSING MEDICAL SURGICAL 6	0	0	0	60		1	1	3

THREE-YEAR REGISTERED NURSE, CONTINUED

CAREER NUMBER 1

.11 NURSING, MEDICAL SURGICAL CONTINUED

	LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
NURSING MEDICAL SURGICAL	48	0	690	738		1	1	3
NURSING MEDICAL SURGICAL	48	0	115	163		1	1	3
NURSING UROLOGICAL	0	0	150	150		1	1	3
NURSING MEDICAL SURGICAL	60	0	250	310		9	1	3
NURSING MEDICAL SURGICAL	60	0	250	310		9	1	3
NURSING MEDICAL SURGICAL	70	0	200	270	1430	9	1	3
NURSING MEDICAL SURGICAL	70	0	200	270		9	1	3
NURSING MEDICAL SURGICAL	70	0	200	270		9	1	3
NURSING MEDICAL SURGICAL 1	88	0	180	268		11	1	3
NURSING MEDICAL SURGICAL 2	88	0	180	268	1012	11	1	3
NURSING MEDICAL SURGICAL 3	88	0	150	238		11	1	3
NURSING MEDICAL SURGICAL 4	88	0	150	238		11	1	3
NURSING MEDICAL SURGICAL 1	0	0	0	96		18	0	0
NURSING MEDICAL SURGICAL 2	0	0	0	96		18	1	5
NURSING MEDICAL SURGICAL 3	0	0	0	96	320	18	1	5
NURSING MEDICAL SURGICAL 4	0	0	0	96		18	1	5
NURSING MEDICAL SURGICAL 5	0	0	0	32		18	1	5
MED-SURG-NURS-NUTRITION-DIET-THER-OP RO	91	0	291	382		22	1	3
NURSING MEDICAL SURGICAL 1	144	36	136	316	1124	22	1	3
NURSING MEDICAL SURGICAL	86	0	340	426		22	1	3
NURSING MEDICAL SURGICAL	320	112	0	432		23	1	3
NURSING OPERATING ROOM	18	24	0	42	586	23	1	3
NURSING, INTENSIVE CARE AND FINAL SEMIN	12	0	100	112		23	1	3
NURSING MEDICAL SURGICAL	100	0	288	388		36	1	3
NURSING MEDICAL SURGICAL	45	0	270	315	1763	36	1	3
NURSING MEDICAL SURGICAL	62	0	230	292		36	1	3
NURSING MEDICAL SURGICAL	96	0	288	384		36	1	3
NURSING MEDICAL SURGICAL	96	0	288	384		36	1	3
NURSING MEDICAL SURGICAL	24	0	68	92	536	38	1	3
NURSING MEDICAL SURGICAL	96	0	348	444		38	1	3
EPIDOMOLOGY	30	0	0	30		40	1	1
NURSING MEDICAL SURGICAL 1	70	0	135	205		40	1	1
NURSING MEDICAL SURGICAL 2	90	0	300	390	1190	40	1	1
NURSING MEDICAL SURGICAL 3	90	0	300	390		40	1	1
NURSING MEDICAL SURGICAL	70	0	90	160		40	1	1
NURSING MEDICAL SURGICAL	70	0	45	115		40	1	1
NURSING MEDICAL SURGICAL 1	100	0	336	436		41	1	3
NURSING MEDICAL SURGICAL 2	114	0	336	450	1222	41	1	3
NURSING MEDICAL SURGICAL 3	0	0	336	336		41	1	3
NURSING MEDICAL SURGICAL	145	108	752	1005		42	1	3
NURSING MEDICAL SURGICAL	96	0	180	276		50	1	3
NURSING MEDICAL SURGICAL	96	0	180	276	828	50	1	3
NURSING MEDICAL SURGICAL	96	0	180	276		50	1	3

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
11	NURSING, MEDICAL SURGICAL, CONTINUED							
	NURSING EXPERIENCE, SENIOR	140	0	340	480	56	1	3
	NURSING MEDICAL SURGICAL 1	114	0	75	189 1249	56	1	3
	NURSING MEDICAL SURGICAL 2	120	0	90	210	56	1	3
	NURSING MEDICAL SURGICAL 3	90	0	280	370	56	1	3
	NURSING MEDICAL SURGICAL	100	0	192	292	58	1	3
	NURSING MEDICAL SURGICAL	100	0	192	292	58	1	3
	NURSING MEDICAL SURGICAL	104	0	768	872	58	1	3
	NURSING MEDICAL SURGICAL	104	0	768	872	58	1	3
	NURSING MEDICAL SURGICAL	84	0	192	276 3768	58	1	3
	NURSING MEDICAL SURGICAL	84	0	192	276	58	1	3
	NURSING OPERATING ROOM	40	0	288	328	58	1	3
	NURSING OPERATING ROOM	40	0	288	328	58	1	3
	NURSING ORTHOPEDIC	20	0	96	116	58	1	3
	NURSING ORTHOPEDIC	20	0	96	116	58	1	3
	NURSING MEDICAL SURGICAL	32	0	192	224	61	1	3
	NURSING MEDICAL SURGICAL	50	0	90	140 1132	61	1	3
	NURSING MEDICAL SURGICAL	96	0	288	384	61	1	3
	NURSING MEDICAL SURGICAL	96	0	288	384	61	1	3
13	ETHICS, PROFESSIONAL							
	ETHICS AND MEDICAL	0	0	0	60	1	1	3
	ETHICS, CHRISTIAN 1	12	0	0	12	18	1	5
	ETHICS, CHRISTIAN 2	12	0	0	12	18	1	5
	ETHICS, CHRISTIAN 3	12	0	0	12 60	18	1	5
	ETHICS, CHRISTIAN 4	12	0	0	12	18	1	5
	ETHICS, CHRISTIAN 5	12	0	0	12	18	1	5
	ETHICS AND MEDICAL	18	0	0	18	35	1	1
	ETHICS AND MEDICAL	48	0	0	48	42	1	1
	ETHICS AND MEDICAL	15	0	0	15	56	1	3
	ETHICS AND MEDICAL	32	0	0	32 64	58	1	3
	ETHICS AND MEDICAL	32	0	0	32	58	1	3
	ETHICS AND MEDICAL	48	0	0	48	61	1	1
14	NUTRITION							
	NUTRITION	0	0	0	12	1	1	3
	FOOD HABITS DEVELOPMENT OF	12	0	0	12 24	11	1	3
	NUTRITION	22	0	0	22	11	1	3
	NUTRITION	0	0	0	32	18	1	5
	NUTRITION	36	0	0	36 72	22	1	3
	NUTRITION	36	0	0	36	22	1	3
	NUTRITION	30	0	0	30	23	1	3
	NUTRITION	36	0	0	36	29	1	2
	NUTRITION	36	0	0	36	36	1	3

CAREER NUMBER 1

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
14	NUTRITION, CONTINUED							
	NUTRITION	30	0	0	30	40	1	1
	NUTRITION	0	0	0	0	50	1	1
	NUTRITION	32	0	0	32 } 64	58	1	2
	NUTRITION	32	0	0	32	58	1	2
	NUTRITION	32	0	0	32	61	1	3
16	PSYCHOLOGY, GENERAL							
	PSYCHOLOGY	0	0	0	36	1	1	3
	PSYCHOLOGY INTRODUCTORY	48	0	0	48	4	1	3
	PSYCHOLOGY	54	0	0	54 } 108	9	1	2
	PSYCHOLOGY	54	0	0	54	9	1	3
	PSYCHOLOGY	48	0	0	48	18	1	2
	PSYCHOLOGY	54	0	0	54	29	1	2
	PSYCHOLOGY GENERAL	54	0	0	54 } 90	35	1	1
	PSYCHOLOGY OF PERSONALITY	36	0	0	36	35	1	1
	HUMAN BEHAVIOR FOUNDATIONS OF	36	0	0	36	36	1	3
	PSYCHOLOGY	48	0	0	48	38	1	1
	PSYCHOLOGY 1	30	0	0	30 } 60	40	1	1
	PSYCHOLOGY 2	30	0	0	30	40	1	1
	PSYCHOLOGY GENERAL	48	0	0	48 } 96	42	1	1
	PSYCHOLOGY GENERAL	48	0	0	48	42	1	1
	PSYCHOLOGY	0	0	0	0	50	1	1
	PSYCHOLOGY	30	0	0	30	56	1	3
	PSYCHOLOGY	48	0	0	48 } 96	58	1	2
	PSYCHOLOGY	48	0	0	48	58	1	2
	PHYSIOLOGY	48	64	0	112 } 160	61	1	1
	PSYCHOLOGY	48	0	0	48	61	1	1
17	HEALTH, PERSONAL AND COMMUNITY							
	COMMUNITY HEALTH	40	0	0	40	9	1	3
	HEALTH PROBLEMS COMMUNITY	36	0	0	36	35	1	1
18	HUMAN RELATIONSHIPS							
	WORD ADMINISTRATION	24	0	30	54	1	1	3
	MANAGEMENT NURSING UNIT	40	0	0	40	9	1	3
	LEADERSHIP SKILLS INTRO.	36	0	506	542	22	1	3
	HUMAN RELATIONS SEMINAR	12	0	0	12	36	1	3
	HUMAN RELATIONS AND LEADERSHIP	30	0	150	180	40	1	1
	LEADERSHIP	50	0	1272	1322	41	1	3

CAREER NUMBER 1

	LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
19 SOCIOLOGY								
MARRIAGE AND THE FAMILY	36	0	0	36	72	1	1	3
SOCIOLOGY	0	0	0	36		1	1	3
SOCIOLOGY-MODERN SOCIAL PROBLEMS	48	0	0	48		4	1	3
SOCIOLOGY - COURTSHIP - MARRIAGE	48	0	0	48	144	4	1	3
SOCIOLOGY	48	0	0	48		4	1	3
MARRIAGE AND THE FAMILY	36	0	0	36	93	9	1	2
SOCIOLOGY	57	0	0	57		9	1	2
SCIENCE AND SOCIAL 1	33	0	0	33		11	1	1
SCIENCE AND SOCIAL 2	33	0	0	33	99	11	1	1
SCIENCE, SCOCIAL 3	33	0	0	33		11	1	1
SOCIOLOGY	48	0	0	48		18	1	2
SOCIO-PSYCHOLOGY	64	0	0	64		23	1	3
SOCIOLOGY	54	0	0	54		29	1	2
SOCIOLOGY	27	0	0	27		36	1	3
SOCIOLOGY-PRINCIPLES	48	0	0	48	102	38	1	1
SOCIOLOGY OF PRINCIPLES	54	0	0	54		38	1	1
SOCIOLOGY 1	22	0	0	22	45	40	1	1
SOCIOLOGY 2	23	0	0	23		40	1	1
SCIENCE AND SOCIAL 1	30	0	0	30		41	1	3
SCIENCE AND SOCIAL 2	30	0	0	30		41	1	3
SCIENCE AND SOCIAL 3	18	0	0	18		41	1	3
SCIENCE AND SOCIAL 4	22	0	0	22	126	41	1	3
SOCIOLOGY-SOCIAL FOUNDATIONS 2	6	0	0	6		41	1	3
SOCIOLOGY-SOCIAL FOUNDATIONS 3	6	0	0	6		41	1	3
SOCIOLOGY-SOCIAL FOUNDATIONS 4	6	0	0	6		41	1	3
SOCIOLOGY-SOCIAL FOUNDATIONS	6	0	0	6		41	1	3
SOCIOLOGY-PRINCIPLES	48	0	0	48		42	1	3
SCIENCE AND SOCIAL	0	0	0	0		50	1	1
SOCIOLOGY	15	0	0	15		56	1	3
SOCIAL PROBLEMS	16	0	0	16		58	1	3
SOCIOLOGY-SOCIAL PROBLEMS	16	0	0	16	128	58	1	3
SOCIOLOGY	48	0	0	48		58	1	2
SOCIOLOGY	48	0	0	48		58	1	2
MARRIAGE AND THE FAMILY	48	0	0	48	96	61	1	1
SOCIOLOGY	48	0	0	48		61	1	1

THREE-YEAR REGISTERED NURSE, CONTINUED

CAREER NUMBER 1

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
20	MICROBIOLOGY							
	MICROBIOLOGY	0	0	0	48	1	1	3
	MICROBIOLOGY	62	0	0	62	11	1	1
	MICROBIOLOGY	0	0	0	96	18	1	2
	MICROBIOLOGY	54	54	0	108	29	1	2
	MICROBIOLOGY	54	72	0	126	35	1	1
	MICROBIOLOGY 1	20	16	0	36	36	1	3
	MICROBIOLOGY	32	32	0	64	38	1	1
	MICROBIOLOGY 1	22	0	0	22 } 45	40	1	1
	MICROBIOLOGY 2	23	0	0	23	40	1	1
	MICROBIOLOGY	96	0	0	96	42	1	1
	MICROBIOLOGY	0	0	0	0 }	50	1	1
	MICROBIOLOGY	0	0	0	0	50	1	1
	MICROBIOLOGY	32	96	0	128 } 256	58	1	2
	MICROBIOLOGY	32	96	0	128	58	1	2
	MICROBIOLOGY	32	96	0	128	61	1	1
21	PEDIATRICS							
	NURSING AND PEDIATRIC	0	0	195	195	1	1	3
	NURSING AND PEDIATRIC	70	0	250	320	9	1	3
	NURSING AND PEDIATRIC	66	0	120	186	11	1	3
	NURSING AND PEDIATRIC	0	0	0	110	18	1	5
	MATERNAL CHILDNUR.NUTRIT.DIET THER.PHAR	180	0	320	500	22	1	3
	NURSING AND PEDIATRIC	76	36	0	112	23	1	3
	NURSING AND PEDIATRIC	54	0	216	270	29	1	3
	NURSING AND PEDIATRIC	96	0	288	384	36	1	3
	NURSING AND PEDIATRIC	100	0	336	436	41	1	3
	NURSING AND PEDIATRIC	108	0	108	288	50	1	3
	NURSING AND PEDIATRIC	74	0	384	458 } 916	58	1	3
	NURSING AND PEDIATRIC	74	0	384	458	58	1	3
	NURSING AND PEDIATRIC	48	0	144	192	61	1	3
22	NURSING, PSYCHIATRIC							
	NURSING AND PSYCHIATRIC	120	0	195	315	1	1	3
	PSYCHODYNAMICS-NURSING	90	0	200	290	9	1	2
	NURSING AND PSYCHIATRIC	110	0	150	260	11	1	3
	NURSING AND PSYCHIATRIC	0	0	0	126	18	1	5
	NURSING AND PSYCHIATRIC	120	30	0	150	23	1	3
	NURSING AND PSYCHIATRIC	72	0	216	288	29	1	3
	NURSING AND PSYCHIATRIC	96	0	288	384	36	1	3
	NURSING AND PSYCHIATRIC	64	0	56	120	38	1	1
	NURSING AND PSYCHIATRIC	90	0	300	90 V	40	1	1

THREE-YEAR REGISTERED NURSE, CONTINUED

		CAREER NUMBER 1						
		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
22	NURSING, PSYCHIATRIC, CONTINUED							
	NURSING AND PSYCHIATRIC	105	0	336	441	41	1	3
	NURSING AND PSYCHIATRIC	40	24	144	208	42	1	3
	NURSING AND PSYCHIATRIC	48	0	144	192	50	1	3
	NURSING AND PSYCHIATRIC	135	0	225	360	56	1	3
	NURSING AND PSYCHIATRIC	106	C	124	230 } 460	58	1	3
	NURSING AND PSYCHIATRIC	106	0	124	230	58	1	3
	NURSING AND PSYCHIATRIC	48	0	144	192	61	1	3
	NURSING AND PSYCHIATRIC	135	0	180	315	94	1	3
23	OBSTETRICS							
	NURSING OBSTETRICAL	70	0	250	320	9	1	3
	NURSING OBSTETRICAL	88	0	150	238	11	1	3
	NURSING OBSTETRICAL	0	0	0	60	18	1	5
	NURSING OBSTETRICAL	73	36	0	109	23	1	3
	NURSING OBSTETRICAL	96	0	288	384	36	1	3
	NURSING OBSTETRICAL	96	0	336	432	38	1	3
	NURSING OBSTETRICAL	165	0	600	765	40	1	1
	NURSING OBSTETRICAL	130	0	336	466	41	1	3
	NURSING OBSTETRICAL	0	0	0	0	42	1	3
	NURSING OBSTETRICAL	108	0	108	288	50	1	3
	NURSING OBSTETRICAL	121	0	344	465	56	1	3
	NURSING OBSTETRICAL	84	0	324	408 } 816	58	1	3
	NURSING OBSTETRICAL	84	0	324	408	58	1	3
	NURSING OBSTETRICAL	48	0	144	192	61	1	3
24	PHARMACOLOGY							
	PHARMACOLOGY	0	0	0	12 } 24	1	1	3
	PHARMACOLOGY	0	0	0	12	1	1	3
	PHARMACOLOGY	40	0	0	40	9	1	3
	PHARMACOLOGY	30	6	0	36	23	1	3
	PHARMACOLOGY	18	0	0	18	29	1	3
	PHARMACOLOGY	32	0	0	32 } 64	58	1	3
	PHARMACOLOGY	32	0	0	32	58	1	3
25	THEOLOGY							
	THEOLOGY	0	0	0	36 } 72	1	1	3
	THEOLOGY	0	0	0	36	1	1	3
	THEOLOGY 1	18	0	0	18 } 90	35	1	1
	THEOLOGY 2	18	0	0	18	35	1	1
	THEOLOGY 3	18	0	0	18	35	1	1
	THEOLOGY 4	18	0	0	18	35	1	1
	THEOLOGY 5	18	0	0	18	35	1	1
	THEOLOGY	24	0	0	24	42	1	3

THREE-YEAR REGISTERED NURSE, CONTINUED

CAREER NUMBER 1

		LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
25	THEOLOGY, CONTINUED								
	THEOLOGY	48	0	0	48	120	42	1	3
	THEOLOGY	48	0	0	48		42	1	3
	THEOLOGY	15	0	0	15	31	56	1	3
	THEOLOGY	16	0	0	16		56	1	3
	THEOLOGY 2	16	0	0	16		61	1	3
	THEOLOGY	16	0	0	16	48	61	1	3
	THEOLOGY	16	0	0	16		61	1	3
27	FIRST AID								
	NURSING, FIRE PREVENTION AND FIRST AID	9	9	0	18		50	1	3
29	PHYSICS								
	PHYSICS	24	0	0	24		36	1	3
31	NURSING, GERIATRICS								
	NURSING GERIATRIC	0	0	75	75		1	1	3
124	GENERAL EDUCATION								
	SPEECH	48	0	0	48		4	1	3
	ENGLISH	54	0	0	54		9	1	2
	ENGLISH	57	0	0	57	147	9	1	2
	SPEECH	36	0	0	36		9	1	2
	ENGLISH 1	48	0	0	48	96	18	1	2
	ENGLISH 2	48	0	0	48		18	1	2
	ENGLISH	54	0	0	54		29	1	2
	ENGLISH COMPOSITION	54	0	0	54	108	35	1	1
	HISTORY U. S.	54	0	0	54		35	1	1
	ENGLISH	48	0	0	48	96	38	1	1
	ENGLISH	48	0	0	48		38	1	1
	COMMUNICATION SKILLS	30	0	0	30		40	1	1
	COMPOSITION	48	0	0	48		42	1	1
	EXPRESSION FUNDAMENTALS	48	0	0	48	144	42	1	1
	LITERATURE INTRO.	48	0	0	48		42	1	1
	ENGLISH	0	0	0	0		50	1	1
	COMMUNICATION SKILLS 2	15	0	0	15		56	1	3
	COMMUNICATION SKILLS 3	15	0	0	15		56	1	3
	COMMUNICATION SKILLS	15	0	0	15	75	56	1	3
	PHILOSOPHY 1	15	0	0	15		56	1	3
	PHILOSOPHY 2	15	0	0	15		56	1	3
	ENGLISH	48	0	0	48		61	1	1

THREE-YEAR REGISTERED NURSE, CONTINUED

CAREER NUMBER 1

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
125 ELECTIVES							
ELECTIVES	48	0	0	48	38	1	1
ELECTIVES	48	0	0	48	38	1	1

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TWO-YEAR REGISTERED NURSE                                    CAREER NUMBER    2
                                              LECT    LAB    CLIN    TOTL    INST   CLAS   LEVL
   1  NURSING, FUNDAMENTALS
         NURSING FUNDAMENTALS                  48      0      96     144       3      1      3
         NURSING FUNDAMENTALS                  21     30      30      81      12      1      2
         NURSING FUNDAMENTALS                  33      0      66      99      19      2      2
         NURSING-CARE OF ADULT AND CHILD 1     48      0     288     336}     20      1      2
         NURSING-CARE OF ADULT AND CHILD 2     48      0     240     288}     20      1      2
         NURSING FUNDAMENTALS                  48      0     144     192} 848 20      1      2
         NURSING ORIENTATION                   16      0       0      16}     20      1      2
         NURSING TRENDS 1                      16      0       0      16}     20      1      2
         NURSING FUNDAMENTALS                  18      0     108     126}     21      1      3
         NURSING FUNDAMENTALS                  32      0     144     176} 558 21      1      3
         NURSING FUNDAMENTALS                  64      0     192     256}     21      1      3
         NURSING FUNDAMENTALS                  32      0      96     128      43      1      3
         NURSING FUNDAMENTALS                  48      0      96     144      46      1      3
         NURSING FUNCTIONS RESPONSIBILITIES    32      0       0      32} 176 60      1      2
         NURSING FUNDAMENTALS                  48      0      96     144}     60      1      3
         NURSING FUNDAMENTALS                  33     33      33      99} 165 81      1      1
         NURSING FUNDAMENTALS                  33      0      33      66}     81      1      3

  -2  NURSING TRENDS
         NURSING TRENDS                        16      0       0      16      20      1      2
         NURSING TRENDS                        32      0       0      32      31      1      2
         NURSING TRENDS                        32      0       0      32      43      1      2

  -3  ANATOMY
         ANATOMY                               32     48       0      80      32      1      2
         ANATOMY                               32     48       0      80      43      1      2
         ANATOMY                               48     48       0      96      46      1      2

  -4  ANATOMY AND PHYSIOLOGY
         ANATOMY AND PHYSIOLOGY                32     96       0     128} 256  3      1      1
         ANATOMY AND PHYSIOLOGY                32     96       0     128}      3      1      1
         ANATOMY AND PHYSIOLOGY                44     33       0      77} 154 12      1      2
         ANATOMY AND PHYSIOLOGY                44     33       0      77}     12      1      2
         ANATOMY AND PHYSIOLOGY 1              48     96       0     144} 224 20      1      2
         ANATOMY AND PHYSIOLOGY 2              32     48       0      80}     20      1      2
         ANATOMY AND PHYSIOLOGY                64     48       0     112      21      1      2
         ANATOMY AND PHYSIOLOGY                64     48       0     112      31      1      2
         ANATOMY AND PHYSIOLOGY                48     48       0      96      60      1      2
         ANATOMY AND PHYSIOLOGY 1              44      0       0      44      81      1      1
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TWO-YEAR REGISTERED NURSE , CONTINUED                                   CAREER NUMBER   2
                                                    LECT   LAB   CLIN   TOTL      INST   CLAS   LEVL
   5  CHEMISTRY, GENERAL
         CHEMISTRY                                   48     48     0     96         3      1      1
         CHEMISTRY, INTEGRATED 1                     44     22     0     66         12     1      2
         CHEMISTRY, INTEGRATED 2                     44     22     0     66  198    12     1      2
         CHEMISTRY, INTEGRATED 3                     44     22     0     66         12     1      2
         CHEMISTRY                                   44     22     0     66         19     2      2
         CHEMISTRY                                   44     33     0     77         81     1      1

   6  HUMAN GROWTH AND DEVELOPMENT
         CHILD DEVELOPMENT                           48      0     0     48          3     1      1
         CHILD DEVELOPMENT                           33      0     0     33         12     1      2
         PSYCHOLOGY CHILD                            48      0     0     48         21     1      2
         HUMAN DEVELOPMENT INTRO.                    48      0     0     48         46     1      2
         CHILD DEVELOPMENT                           48      0     0     48         60     1      2
         CHILD DEVELOPMENT                           55      0     0     55         81     1      1

   7  NURSING
         NURSING                                     48      0   144    192         31     1      3
         NURSING                                     64      0   112    176         32     1      3

  10  PHYSIOLOGY
         PHYSIOLOGY                                  32     48     0     80         32     1      2
         PHYSIOLOGY                                  48     96     0    144         43     1      2
         PHYSIOLOGY                                  48     48     0     96         46     1      2
         PHYSIOLOGY 2                                 0     33     0     33         81     1      1

  11  NURSING, MEDICAL SURGICAL
         NURSING COMPREHENSIVE                       30      0   240    270          3     1      3
         NURSING MEDICAL SURGICAL                    10      0    75     85          3     1      3
         NURSING MEDICAL SURGICAL                    25      0    88    113          3     1      3
         NURSING MEDICAL SURGICAL                    32      0    96    128  1188     3     1      3
         NURSING MEDICAL SURGICAL                    40      0   120    160          3     1      3
         NURSING MEDICAL SURGICAL                    48      0   144    192          3     1      3
         NURSING MEDICAL SURGICAL                    48      0   192    240          3     1      3
         NURSING MEDICAL SURGICAL 1                  42      0   150    192         12     1      2
         NURSING MEDICAL SURGICAL 2                  52      0   180    232  656    12     1      2
         NURSING MEDICAL SURGICAL 3                  52      0   180    232         12     1      2
         NURSING MEDICAL SURGICAL 1                  55      0   165    220         19     2      2
         NURSING MEDICAL SURGICAL 1                  55      0   165    220  660    19     2      2
         NURSING MEDICAL SURGICAL 3                  55      0   165    220         19     2      2
         CLINICAL NURSING ADV.                       18      0   108    126  318    21     1      2
         NURSING MEDICAL SURGICAL                    48      0   144    192         21     1      3
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TWO-YEAR REGISTERED NURSE, CONTINUED

CAREER NUMBER 2

		LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
11	NURSING, MEDICAL SURGICAL, CONTINUED								
	NURSING MEDICAL SURGICAL	48	0	384	432	624	31	1	3
	NURSING MEDICAL SURGICAL	48	0	144	192		31	1	3
	NURSING MEDICAL SURGICAL	32	0	144	176	656	32	1	3
	NURSING MEDICAL SURGICAL	32	0	96	128		32	1	3
	NURSING MEDICAL SURGICAL	48	0	96	144		32	1	3
	NURSING MEDICAL SURGICAL	64	0	144	208		32	1	3
	NURSING MEDICAL SURGICAL	18	0	162	180	668	43	1	3
	NURSING MEDICAL SURGICAL	18	0	54	72		43	1	3
	NURSING MEDICAL SURGICAL	48	0	144	192		43	1	3
	NURSING MEDICAL SURGICAL	56	0	168	224		43	1	3
	NURSING CARE, ADULT	96	0	192	288	544	60	1	3
	NURSING PATIENTS WITH COMPLEX NEEDS	64	0	192	256		60	1	3
	NURSING MEDICAL SURGICAL 1	55	0	231	286	869	81	1	3
	NURSING MEDICAL SURGICAL 2	55	0	231	286		81	1	3
	NURSING MEDICAL SURGICAL 3	55	0	231	286		81	1	3
	NURSING SEMINAR	11	0	0	11		81	1	1
14	NUTRITION								
	NUTRITION	44	0	0	44		12	1	2
	NUTRITION	33	0	0	33		19	2	2
	NUTRITION HEALTH ILLNESS	32	0	0	32		31	1	2
	NUTRITION	32	0	0	32		32	1	2
	NUTRITION	32	0	0	32		43	1	2
	NUTRITION	32	0	0	32		46	1	2
	NUTRITION	48	0	0	48		60	1	2
	NUTRITION	33	0	0	33		81	1	1
16	PSYCHOLOGY, GENERAL								
	PSYCHOLOGY GENERAL	48	0	0	48		3	1	1
	PSYCHOLOGY INTRODUCTORY	55	0	0	55		12	1	2
	PSYCHOLOGY GENERAL	55	0	0	55		19	2	2
	PSYCHOLOGY GENERAL	48	0	0	48		20	1	2
	PSYCHOLOGY GENERAL	48	0	0	48		21	1	2
	PSYCHOLOGY INTRODUCTORY	48	0	0	48		31	1	2
	PSYCHOLOGY GENERAL	48	0	0	48		32	1	2
	PSYCHOLOGY INTRODUCTORY	48	0	0	48		43	1	2
	PSYCHOLOGY GENERAL	48	0	0	48		46	1	2
	PSYCHOLOGY GENERAL	48	0	0	48		60	1	2
	PSYCHOLOGY INTRODUCTORY	55	0	0	55		81	1	1

TWO-YEAR REGISTERED NURSE, CONTINUED

CAREER NUMBER 2

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
17	HEALTH, PERSONAL AND COMMUNITY							
	HEALTH PERSONAL COMMUNITY	22	0	0	22	81	1	1
19	SOCIOLOGY							
	SOCIOLOGY	48	0	0	48	3	1	1
	SOCIOLOGY	55	0	0	55	12	1	2
	SOCIOLOGY AND GENERAL	55	0	0	55	19	2	2
	SOCIOLOGY	48	0	0	48	20	1	2
	SOCIOLOGY	48	0	0	48	21	1	2
	SOCIOLOGY	48	0	0	48	32	1	2
	SOCIOLOGY	48	0	0	48	43	1	2
	SOCIOLOGY	48	0	0	48	46	1	2
	SOCIOLOGY	48	0	0	48	60	1	2
	MARRIAGE AND THE FAMILY	33	0	0	33	81	1	1
20	MICROBIOLOGY							
	BACTERIOLOGY	32	96	0	128	3	1	1
	MICROBIOLOGY	33	44	0	77	12	1	2
	MICROBIOLOGY	0	0	0	55	19	2	2
	MICROBIOLOGY GENERAL	32	96	0	128	20	1	2
	MICROBIOLOGY	32	48	0	80	21	1	2
	MICROBIOLOGY	32	48	0	80	31	1	2
	MICROBIOLOGY GENERAL	48	48	0	96	32	1	2
	MICROBIOLOGY	32	96	0	128	43	1	2
	MICROBIOLOGY	32	96	0	128	46	1	2
	BACTERIOLOGY	48	48	0	96	60	1	2
	MICROBIOLOGY 1	44	0	0	44 } 77	81	1	1
	MICROBIOLOGY 2, LABORATORY	0	33	0	33	81	1	1
21	PEDIATRICS							
	NURSING AND PEDIATRIC	48	0	192	240	3	1	3
	NURSING AND PEDIATRIC	33	0	132	165	19	2	2
	NURSING AND PEDIATRIC	32	0	144	176	21	1	3
	NURSING AND PEDIATRIC	32	0	144	176	31	1	3
	NURSING AND PEDIATRIC	32	0	144	176	32	1	3
	NURSING AND PEDIATRIC	40	0	144	184	43	1	3
	NURSING AND PEDIATRIC	40	0	120	160	46	1	3
	NURSING AND PEDIATRIC	37	0	75	112	60	1	3

TWO-YEAR REGISTERED NURSE, CONTINUED

CAREER NUMBER 2

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
22	NURSING, PSYCHIATRIC							
	NURSING AND PSYCHIATRIC	48	0	192	240	3	1	3
	NURSING AND PSYCHIATRIC	44	0	165	209	12	1	2
	NURSING AND PSYCHIATRIC	55	0	165	220	19	2	2
	NURSING AND PSYCHIATRIC 1	16	0	48	64 } 176	20	1	2
	NURSING AND PSYCHIATRIC 2	16	0	96	112	20	1	2
	NURSING AND PSYCHIATRIC	32	0	144	176	21	1	3
	NURSING AND PSYCHIATRIC	36	0	108	144	31	1	3
	NURSING AND PSYCHIATRIC	32	0	144	176	32	1	3
	NURSING AND PSYCHIATRIC	56	0	168	224	43	1	3
	NURSING AND PSYCHIATRIC	40	0	120	160	46	1	3
23	OBSTETRICS							
	NURSING OBSTETRICAL	48	0	192	240	3	1	3
	NURSING OBSTETRICAL 2	21	0	90	111 } 203	12	1	2
	NURSING OBSTETRICAL	32	0	60	92	12	1	2
	NURSING OBSTETRICAL	33	0	99	132	19	2	2
	NURSING OBSTETRICAL	32	0	192	224	20	1	2
	NURSING OBSTETRICAL	32	0	144	176	21	1	3
	NURSING OBSTETRICAL	32	0	144	176	31	1	3
	NURSING OBSTETRICAL	32	0	144	176	32	1	3
	NURSING OBSTETRICAL	48	0	144	192	43	1	3
	NURSING OBSTETRICAL	40	0	120	160	46	1	3
	NURSING OBSTETRICAL	32	0	96	128	60	1	3
	NURSING OBSTETRICAL	22	0	132	154	81	1	1
29	PHYSICS							
	PHYSICS AND INTRODUCTION	55	0	0	55	81	1	1
30	ZOOLOGY							
	ZOOLOGY	55	44	0	99	19	2	2
124	GENERAL EDUCATION							
	ENGLISH	48	0	0	48 } 96	3	1	1
	ENGLISH	48	0	0	48	3	1	1
	ENGLISH 1, COMPOSITION	33	0	0	33 } 165	12	1	2
	ENGLISH 2, COMPOSITION	33	0	0	33	12	1	2
	ENGLISH 3, COMPOSITION	33	0	0	33	12	1	2
	PHYSICAL EDUCATION	0	66	0	66	12	1	2
	BIOLOGY	44	22	0	66 } 176	19	2	2
	ENGLISH 1, COMPOSITION	55	0	0	55	19	2	2
	ENGLISH 2	55	0	0	55	19	2	2

TWO-YEAR REGISTERED NURSE, CONTINUED

CAREER NUMBER 2

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
124	GENERAL EDUCATION, CONTINUED							
	ENGLISH 3	33	0	0	33	19	2	2
	PHYSICAL EDUCATION 1	0	22	0	22	19	2	2
	PHYSICAL EDUCATION 2	0	22	0	22	19	2	2
	PHYSICAL EDUCATION 3	0	22	0	22	19	2	2
	ENGLISH- EFFECTIVE WRITING	48	0	0	48	20	1	2
	PHYSICAL EDUCATION	0	128	0	128	20	1	2
	SCIENCE, POLITICAL	48	0	0	48	20	1	2
	SPEAKING EFFECTIVE	48	0	0	48	20	1	2
	GOVERNMENT AMERICAN	48	0	0	48	21	1	3
	HISTORY U. S. SURVEY	48	0	0	48	21	1	2
	PHYSICAL EDUCATION	0	32	0	32	21	1	2
	PHYSICAL EDUCATION	0	32	0	32	21	1	2
	PHYSICAL EDUCATION	0	32	0	32	21	1	2
	PHYSICAL EDUCATION	0	32	0	32	21	1	2
	READING COMPOSITION	48	0	0	48	21	1	2
	SPEECH ELEMENTS OF	48	0	0	48	21	1	2
	GOVERNMENT	48	0	0	48	31	1	2
	HISTORY U. S.	42	0	0	42	31	1	2
	HUMANITIES	48	0	0	48	31	1	2
	PHYSICAL EDUCATION	0	32	0	32	31	1	2
	PHYSICAL EDUCATION	0	32	0	32	31	1	2
	PHYSICAL EDUCATION	0	32	0	32	31	1	2
	PHYSICAL EDUCATION	0	32	0	32	31	1	2
	PUBLIC SPEAKING ELEMENTS	48	0	0	48	31	1	2
	READING AND COMPOSITION	48	0	0	48	31	1	2
	ENGLISH READING COMP.	48	0	0	48	32	1	2
	HISTORY U. S. POLITICAL-SOCIAL	48	0	0	48	32	1	2
	PHYSICAL EDUCATION	0	32	0	32	32	1	2
	PHYSICAL EDUCATION	0	32	0	32	32	1	2
	PHYSICAL EDUCATION	0	32	0	32	32	1	2
	PHYSICAL EDUCATION	0	32	0	32	32	1	2
	SPEECH	48	0	0	48	32	1	2
	ENGLISH	48	0	0	48	43	1	2
	ENGLISH	48	0	0	48	43	1	2
	HISTORY, AMERICAN	48	0	0	48	43	1	2
	PHYSICAL EDUCATION	0	32	0	32	43	1	2
	PHYSICAL EDUCATION	0	32	0	32	43	1	2
	PHYSICAL EDUCATION	0	32	0	32	43	1	2
	PHYSICAL EDUCATION	0	32	0	32	43	1	2
	SCIENCE, POLITICAL	48	0	0	48	43	1	2
	ENGLISH	48	0	0	48	46	1	2
	ENGLISH	48	0	0	48	46	1	2
	HUMANITIES	32	0	0	32	46	1	2

TWO-YEAR REGISTERED NURSE, CONTINUED

CAREER NUMBER 2

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
124	GENERAL EDUCATION, CONTINUED							
	PHYSICAL EDUCATION	0	32	0	32	46	1	2
	PHYSICAL EDUCATION	0	32	0	32	46	1	2
	PHYSICAL EDUCATION	0	32	0	32	46	1	2
	PHYSICAL EDUCATION	0	32	0	32	46	1	2
	ENGLISH COMPOSITION	48	0	0	48	60	1	2
	ENGLISH COMPOSITION	48	0	0	48	60	1	2
	GOVERNMENT, NATIONAL	48	0	0	48	60	1	2
	GOVERNMENT, STATE-LOCAL	48	0	0	48	60	1	2
	PHYSICAL EDUCATION	0	32	0	32	60	1	2
	PHYSICAL EDUCATION	0	32	0	32	60	1	2
	PHYSICAL EDUCATION	0	32	0	32	60	1	2
	PHYSICAL EDUCATION	0	32	0	32	60	1	2
	SCIENCES PHYSICAL	48	0	0	48	60	1	2
	ENGLISH, FRESHMAN COMP. AUGMENTATION	33	0	0	33	81	1	1
	ENGLISH, FRESHMAN COMP. FUND.	33	0	0	33	81	1	1
	ENGLISH, FRESHMAN COMPOS. EXPOSITION	33	0	0	33	81	1	1
	HISTORY AMERICAN CIVILIZATION	55	0	0	55	81	1	1
	HUMANITIES	33	0	0	33	81	1	1
	HUMANITIES	33	0	0	33	81	1	1
	HUMANITIES	33	0	0	33	81	1	1
	PHYSICAL EDUCATION	0	22	0	22	81	1	1
	PHYSICAL EDUCATION	0	22	0	22	81	1	1
	PHYSICAL EDUCATION	0	22	0	22	81	1	1
125	ELECTIVES							
	ELECTIVES	110	0	0	110	12	1	2
	ELECTIVES	77	0	0	77	19	2	2
	ELECTIVES	48	0	0	48	20	1	2
	ELECTIVES	64	0	0	64	60	1	2

LICENSED PRACTICAL NURSE

CAREER NUMBER 3

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
1	NURSING, FUNDAMENTALS							
	NURSING FUNDAMENTALS	96	43	116	255	47	0	3
	NURSING FUNDAMENTALS	48	48	80	176	54	1	3
	NURSING FUNDAMENTALS	20	0	96	116 } 351	87	1	3
	NURSING FUNDAMENTALS	75	160	0	235	87	1	5
	NURSING FUNDAMENTALS 1	85	30	174	289 } 415	88	1	2
	NURSING FUNDAMENTALS 2	36	0	90	126	88	1	2
	NURSING PRINCIPLES	130	98	54	282	89	1	5
	NURSING FUNDAMENTALS	73	145	48	266 } 282	90	1	5
	NURSING REHABILITATION	16	0	0	16	90	1	3
	NURSING FUNDAMENTALS	48	0	240	288 } 400	91	1	3
	NURSING	64	48	0	112	91	1	2
	NURSING PRINCIPLES SKILLS	93	62	60	215	92	1	5
	NURSING PRINCIPLES SKILLS	224	0	0	224	93	1	5
4	ANATOMY AND PHYSIOLOGY							
	ANATOMY AND PHYSIOLOGY	32	0	0	32	87	1	5
	ANATOMY AND PHYSIOLOGY	51	51	0	102	88	1	2
	ANATOMY AND PHYSIOLOGY	50	0	0	50	89	1	5
	ANATOMY AND PHYSIOLOGY	50	0	0	50	90	1	5
	BODY STRUCTURE FUNCTION	52	0	0	52	92	1	5
	BODY STRUCTURE PERS. HEALTH	52	0	0	52	93	1	5
6	HUMAN GROWTH AND DEVELOPMENT							
	HUMAN GROWTH AND DEVELOPMENT	64	0	0	64	54	1	5
	GROWTH DEVEL. THRU. DECLINING YRS. NORM	26	0	0	26	89	1	5
	CHILD GROWTH AND DEVELOPMENT	18	2	0	20	92	1	5
	CHILD DEVELOPMENT	18	0	0	18	93	1	5
11	NURSING, MEDICAL SURGICAL							
	NURSING MEDICAL SURGICAL	140	0	580	720 } 748	47	0	3
	NURSING MEDICAL SURGICAL	28	0	0	28	47	0	4
	NURSING MEDICAL SURGICAL	96	0	352	448	54	1	3
	NURSING MEDICAL SURGICAL	22	0	0	22 } 872	87	1	5
	NURSING MEDICAL SURGICAL	50	0	800	850	87	1	5
	NURSING MEDICAL SURGICAL 1	68	0	136	204	88	1	2
	NURSING MEDICAL SURGICAL 2	90	0	360	450 } 1034	88	1	2
	NURSING MEDICAL SURGICAL 3	130	0	250	380	88	1	2
	ILLNESS-INTRO TO CONDITIONS	12	0	0	12	89	1	5
	NURSING MEDICAL SURGICAL	56	0	256	312 } 700	89	1	3
	NURSING SURGICAL REC. RM INC.	56	0	320	376	89	1	3
	NURSING MEDICAL SURGICAL	64	34	558	656 }	90	1	3

LICENSED PRACTICAL NURSE , CONTINUED

CAREER NUMBER 3

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
11	NURSING, MEDICAL SURGICAL, CONTINUED							
	NURSING MEDICAL SURGICAL	20	0	0	20 } 88	90	1	5
	OUT PATIENT CLINIC	0	4	64	68	90	1	3
	MEDICAL SURGICAL	112	0	288	400	91	1	3
	ILLNESS-INTRO TO CONDITIONS	67	0	0	67	92	1	5
	NURSING MEDICAL SURGICAL	38	0	324	362 } 697	92	1	3
	NURSING MEDICAL SURGICAL	44	0	224	268	92	1	3
	ILLNESS INTRO	24	0	0	24	93	1	5
	RECOVERY ROOM	2	0	78	80 } 144	93	1	3
	SUPPLY-CENTRAL	1	0	39	40	93	1	3
12	VOCATIONAL RELATIONSHIPS							
	RELATIONSHIPS VOCATIONAL	24	0	0	24	47	0	4
	ADJUSTMENT PROFESSIONAL	32	0	0	32	54	1	5
	RELATIONSHIPS PERSONAL VOCATIONAL	32	0	0	34	87	1	5
	RELATIONSHIPS PROFESSIONAL	17	0	0	17 } 37	88	1	2
	RELATIONSHIPS PROFESSIONAL	20	0	0	20	88	1	2
	ADJUSTMENT PROFESSIONAL	16	0	0	16 } 28	89	1	5
	RELATIONSHIPS PERSONAL VOCATIONAL	12	0	0	12	89	1	3
	ADJUSTMENT PROFESSIONAL	32	0	0	32	90	1	5
	RELATIONSHIPS PERS_ VOCATIONAL	46	0	38	84	92	1	5
	GUIDANCE	32	0	0	32 } 64	93	1	5
	RELATIONSHIPS VOCATIONAL	32	0	0	32	93	1	5
13	ETHICS, PROFESSIONAL							
	ETHICS AND MEDICAL	16	0	0	16	90	1	5
14	NUTRITION							
	NUTRITION	16	0	0	16	54	1	5
	NUTRITION	66	10	0	76	89	1	5
	NUTRITION	24	18	0	42	90	1	5
15	MATHEMATICS							
	ARITHMETIC BASIC DRUGS-SOLUT.	12	0	0	12	89	1	5
	ARITHMETIC REVIEW	48	0	0	48	91	1	2
16	PSYCHOLOGY, GENERAL							
	PSYCHOLOGY INTRODUCTORY	16	0	0	16	54	1	5

LICENSED PRACTICAL NURSE , CONTINUED

CAREER NUMBER 3

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
17	HEALTH, PERSONAL AND COMMUNITY							
	HEALTH PERSONAL COMMUNITY	30	0	0	30	47	0	4
	HEALTH PERSONAL COMMUNITY	20	0	0	20	87	1	5
	HEALTH, MENTAL	54	0	0	54	88	1	2
	PERSONAL HEALTH AND ADJUST.	18	0	0	18	89	1	5
	HEALTH PERSONAL COMMUNITY	36	0	0	36	90	1	5
	HEALTH PERSONAL COMMUNITY	20	0	0	20	92	1	5
	COMMUNITY HEALTH	20	0	0	20	93	1	5
19	SOCIOLOGY							
	SOCIOLOGY	16	0	0	16	54	1	5
	SOCIOLOGY BASIC COMMUNITY HEALTH	50	0	0	50	89	1	5
	SOCIOLOGY	42	0	0	42	90	1	5
	MARRIAGE AND THE FAMILY	11	0	0	11 } 33	92	1	3
	MARRIAGE AND THE FAMILY	22	0	0	22	92	1	5
	MARRIAGE AND THE FAMILY	10	0	0	10	93	1	5
20	MICROBIOLOGY							
	MICROBIOLOGY	16	0	0	16	54	1	5
21	PEDIATRICS							
	NURSING AND PEDIATRIC	30	0	210	240 } 255	47	0	3
	NURSING AND PEDIATRIC	15	0	0	15	47	0	4
	PEDIATRICS	30	0	240	270	87	1	3
	PEDIATRICS	28	0	160	188	89	1	3
	NURSING AND PEDIATRIC	24	8	130	162	90	1	3
	NURSING AND PEDIATRIC	48	0	144	192	91	1	3
	NURSING AND PEDIATRIC	29	0	115	144 } 156	92	1	3
	PEDIATRICS INTRO.	12	0	0	12	92	1	5
	NURSING AND PEDIATRIC	5	0	195	200 } 218	93	1	3
	NURSING AND PEDIATRIC	18	0	0	18	93	1	5
22	NURSING, PSYCHIATRIC							
	NURSING AND PSYCHIATRIC	28	8	130	166	90	1	3
	NURSING AND PSYCHIATRIC	32	0	96	128	91	1	3
	NURSING AND PSYCHIATRIC	12	0	68	80 } 92	92	1	3
	PSYCHIATRY INTRO	12	0	0	12	92	1	5

LICENSED PRACTICAL NURSE, CONTINUED

CAREER NUMBER 3

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
23	OBSTETRICS							
	NURSING OBSTETRICAL	30	0	210	240 } 255	47	0	3
	NURSING OBSTETRICAL	15	0	0	15	47	0	4
	NURSING OBSTETRICAL	96	0	352	448	54	1	3
	NURSING OBSTETRICAL	45	0	240	285	87	1	5
	NURSING OBSTETRICAL	22	0	128	150	89	1	3
	NURSING OBSTETRICAL	24	8	200	232	90	1	3
	NURSING OBSTETRICAL	48	0	144	192	91	1	3
	NURSING OBSTETRICAL	24	0	0	120	92	1	3
	NURSING OBSTETRICAL	5	0	195	200 } 218	93	1	3
	NURSING OBSTETRICAL	18	0	0	18	93	1	5
24	PHARMACOLOGY							
	PHARMACOLOGY	45	0	0	45	47	0	4
	PHARMACOLOGY	16	0	0	16 } 48	54	1	5
	PHARMACOLOGY	32	0	0	32	54	1	5
	PHARMACOLOGY	64	7	160	231	87	1	3
	PHARMACOLOGY	32	0	0	32	90	1	5
26	DIETETICS							
	DIET KITCHEN	10	0	70	80 } 115	47	0	3
	THERAPY NUTRITION DIET	35	0	0	35	47	1	4
	THERAPY DIET	32	0	0	32	54	1	5
	THERAPY NUTRITION DIET	46	6	0	52	87	1	5
	DIET THERAPY INTEGRATED	10	0	64	74	89	1	3
	DIET IN DISEASE	20	0	0	20	90	1	3
	THERAPY NUTRITION DIET	52	0	0	52	92	1	5
	DIET KITCHEN	2	0	78	80 } 128	93	1	3
	THERAPY NUTRITION DIET	48	0	0	48	93	1	5
27	FIRST AID							
	FIRST AID	10	0	0	10	89	1	5
	FIRST AID	10	0	0	10	90	1	5
31	NURSING, GERIATRICS							
	NURSING GERIATRIC	15	0	0	15	47	0	4
	GERIATRICS	20	0	0	20	87	1	5
	NURSING GERIATRIC	14	0	0	14	93	1	5

LICENSED PRACTICAL NURSE , CONTINUED

CAREER NUMBER 3

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
124 GENERAL EDUCATION							
ENGLISH	48	0	0	48	91	1	2
PHYSICAL EDUCATION	0	32	0	32	91	1	2
PHYSICAL EDUCATION	0	32	0	32	91	1	2

NURSE AIDE

CAREER NUMBER 4

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
1	NURSING, FUNDAMENTALS							
	ORIENTATION	3	0	0	3	47	0	4
	ORIENTATION	30	0	10	40	109	0	3
11	NURSING, MEDICAL SURGICAL							
	NURSING MEDICAL SURGICAL	38	0	120	158	47	0	3
	NURSING MEDICAL SURGICAL	108	0	702	810	93	1	3
14	NUTRITION							
	NUTRITION	3	2	0	5	47	0	4
18	HUMAN RELATIONSHIPS							
	RELATIONSHIPS PERSONAL INTERPERS.	4	0	0	4	47	0	4
31	NURSING, GERIATRICS							
	NURSING GERIATRIC	38	0	120	158	47	0	3
	AGED CARE	3	0	117	120	93	1	3
32	NURSING, PROCEDURES							
	BODY MEDHANICS-PATIENT	4	2	0	6	47	0	4
	ENVIRONMENT-PATIENTS	5	2	0	7	47	0	4
	HYGIENE-PATIENTS-PERSONAL	20	8	0	28 } 65	47	0	4
	NURSING-ADM.-DISCH.-OF PATIENTS	2	0	0	2	47	0	4
	NURSING PROBLEMS-SPECIAL	12	0	0	12	47	0	4
	NURSING VITAL SIGNS	4	6	0	10	47	0	4
	BODY-ILLNESS-CARE-DIET	10	0	30	40	109	0	3
	BODY-ILLNESS-CARE-DIET	10	0	30	40 } 120	109	0	3
	NURSING PROCEDURES	24	0	16	40	109	0	3
	PATIENT CARE-SPECIAL	10	0	30	40	109	0	3
124	GENERAL EDUCATION							
	COMMUNICATION SKILLS	3	0	0	3 } 7	47	0	4
	EMPLOYMENT-APPLICATION FOR	4	0	0	4	47	0	3

DENTAL ASSISTANT

CAREER NUMBER 5

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
0	UNCOMMON							
	STERILIZATION	0	0	0	0	47	1	4
12	VOCATIONAL RELATIONSHIPS							
	BUSINESS CAREERS	7	0	0	7	21	1	2
13	ETHICS, PROFESSIONAL							
	ETHICS AND MEDICAL	12	0	0	12	47	1	4
14	NUTRITION							
	NUTRITION	30	0	0	30	21	1	2
	DIET NUTRITION	60	0	0	60	47	1	4
17	HEALTH, PERSONAL AND COMMUNITY							
	HEALTH PERSONAL	30	0	0	30	21	1	2
	HYGIENE PERSONAL	30	0	0	30	47	1	4
20	MICROBIOLOGY							
	BACTERIOLOGY	30	0	0	30	47	1	4
27	FIRST AID							
	FIRST AID	30	0	0	30	21	1	2
	FIRST AID	30	0	0	30	47	1	4
33	OFFICE TRAINING AND MANAGEMENT							
	OFFICE MANAGM. DENTAL 2 SEM.	60	0	0	60} 315	21	1	2
	OFFICE TRAINING COOP. DENTAL	240	0	15	255}	21	1	2
34	PSYCHOLOGY, APPLIED							
	BUSINESS HUMAN REL_	45	0	0	45} 90	21	1	2
	PSYCHOLOGY APPLIED	45	0	0	45}	21	1	2
	PSYCHOLOGY APPLIED	30	0	0	30	47	1	4
35	TERMINOLOGY, DENTAL							
	TERMINOLOGY DENTAL	0	0	0	0	47	1	4
36	DENTAL ASSISTING							
	DENTAL SCIENCE APPLIED	90	0	0	90	21	1	2
	CHAIRSIDE ASSISTING	0	0	0	0	47	1	4

DENTAL ASSISTANT, CONTINUED

CAREER NUMBER 5

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
53	PATHOLOGY							
	PATHOLOGY	45	0	0	45	47	1	4
65	TYPING							
	TYPING	90	0	0	90	21	1	2
78	RADIOGRAPHY, INTRA-ORAL							
	ROENTGENOGRAPHY DENTAL	60	30	0	90	21	1	2
84	ANESTHESIA							
	ANESTHESIA	60	0	0	60	47	1	4
85	DENTAL ANATOMY							
	ANATOMY, DENTAL	60	0	0	60	47	1	4
86	CLINICAL PRACTICE, DENTAL							
	LAB PROCEDURES DENTAL	0	90	0	90 } 210	21	1	2
	OPERATIVE PROCEDURE DENTAL	30	90	0	120	21	1	2
87	DENTAL HEALTH							
	DENTAL HEALTH EDUCATION	60	0	0	60	47	1	4
88	ORIENTATION, DENTAL							
	ORIENTATION	60	0	0	60	47	1	4
124	GENERAL EDUCATION							
	COMMUNICATION PRAC.	45	0	0	45	21	1	2
	GOVERNMENT AMERICAN SURVEY	30	0	0	30	21	1	2
	HISTORY U. S.	45	0	0	45 } 195	21	1	2
	PHYSICAL EDUCATION	30	0	0	30	21	1	2
	SPEECH ELEMENTS OF	45	0	0	45	21	1	2
125	ELECTIVES							
	ELECTIVES	0	0	0	0	21	1	2

MEDICAL TECHNOLOGIST

CAREER NUMBER 6

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
0	UNCOMMON							
	COAGULATION	5	0	0	5 }	24	1	3
	ORIENTATION	35	0	0	35 }	24	1	3
✓ 3	ANATOMY							
	EMBRYOLOGY	30	180	0	210	4	1	1
	ANATOMY	48	24	0	72	13	1	1
	ANATOMY GENERAL	36	72	0	108 } 180	37	1	1
	ANATOMY, MICROSCOPIC AND EMBRYOLOGY	36	36	0	72 }	37	1	1
✓ 4	ANATOMY AND PHYSIOLOGY							
	ANATOMY AND PHYSIOLOGY	32	32	0	64	78	1	1
5	CHEMISTRY, GENERAL							
	CHEMISTRY GENERAL	45	135	0	180	4	1	1
	CHEMISTRY	49	0	0	49	24	1	3
	CHEMISTRY GENERAL	96	128	0	224	27	1	1
	CHEMISTRY	108	72	0	180	37	1	1
	CHEMISTRY	80	480	0	560 } 1120	58	1	3
	CHEMISTRY	80	480	0	560 }	58	1	3
	CHEMISTRY GENERAL 2 SEMESTER	64	48	0	112	65	1	1
	CHEMISTRY GENERAL 2 SEMESTER	48	96	0	144	67	1	1
	CHEMISTRY	36	24	0	60 }	68	1	1
	CHEMISTRY, GENERAL AND QUAL. 1	36	36	0	72 } 204	68	1	1
	CHEMISTRY, GENERAL AND QUAL. 2	36	36	0	72 }	68	1	1
	CHEMISTRY GENERAL	48	48	0	96	76	1	1
	CHEMISTRY GENERAL	48	64	0	112	78	1	1
10	PHYSIOLOGY							
	PHYSIOLOGY	30	135	0	165	4	1	1
	PHYSIOLOGY	32	48	0	80	8	1	1
	PHYSIOLOGY	0	60	0	60	13	1	1
	PHYSIOLOGY	72	72	0	144	37	1	1
	PHYSIOLOGY	36	24	0	60	68	1	1
	PHYSIOLOGY	48	0	0	48	76	1	1
15	MATHEMATICS							
	MATHEMATICS	48	0	0	48	8	1	1
	ALGEBRA AND TRIGONOMETRY	64	0	0	64 } 128	27	0	0
	CALCULUS AND ANALYTICAL GEOMETRY	64	0	0	64 }	27	1	1
	ALGEBRA COLLEGE	36	0	0	36 } 72	37	1	1
	TRIGONOMETRY	36	0	0	36 }	37	1	1

MEDICAL TECHNOLOGIST, CONTINUED

CAREER NUMBER 6

	LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
15 MATHEMATICS, CONTINUED								
MATHEMATICS	36	0	0	36		68	1	1
ALGEBRA COLLEGE	48	0	0	48	96	76	1	1
TRIGINOMETRY PLAIN	48	0	0	48		76	0	0
ALGEBRA INTRO. COLLEGE	48	0	0	48		78	1	1
20 MICROBIOLOGY								
MICROBIOLOGY LAB.	0	135	0	135	180	4	1	1
MICROBIOLOGY	45	0	0	45		4	1	1
BACTERIOLOGY	48	48	0	96		8	1	1
BACTERIOLOGY DAIRY LAB.	36	48	0	84		13	1	1
BACTERIOLOGY	32	48	0	80		13	1	1
BACTERIOLOGY	36	36	0	72		13	1	1
MICROBIOLOGY FOOD-LAB	36	48	0	84	608	13	1	1
MICROBIOLOGY INDUSTRIAL PROCESSES	36	0	0	36		13	1	1
MICROBIOLOGY WATER-SEWER	36	36	0	72		13	1	1
PATHOGENIC BACT.-IMMUNO.- I SEM.	36	96	0	132		13	1	1
PATHOGENIC BACT.-IMMUNO.- I SEM.	48	0	0	48		13	1	1
BACTERIOLOGY MYCOLOGY AND RELATE	42	336	0	378		24	1	3
MICROBIOLOGY GENERAL	48	0	0	48	192	27	1	1
MICROBIOLOGY GENERAL	0	48	0	48		27	1	1
MICROBIOLOGY PATHOGENIC	48	48	0	96		27	1	1
BACTERIOLOGY PATHOGENIC	36	36	0	72	132	37	1	1
BACTERIOLOGY	36	24	0	60		37	1	1
BACTERIOLOGY	60	380	0	440	880	58	1	3
BACTERIOLOGY	60	380	0	440		58	1	3
BACTERIOLOGY	32	96	0	128		65	1	1
BACTERIOLOGY PUB. HEALTH	16	144	0	160		67	1	1
BACTERIOLOGY	48	96	0	144	384	67	1	1
BACTERIOLOGY	48	0	0	48		67	1	1
BACTERIOLOGY	0	32	0	32		67	1	1
BACTERIOLOGY	36	36	0	72	108	68	1	1
BACTERIOLOGY	0	36	0	36		68	1	1
BACTERIOLOGY	32	96	0	128		76	1	1
28 BOTANY								
BOTANY GENERAL	45	135	0	180	480	4	1	1
MYCOLOGY MEDICAL ADV.	30	270	0	300		4	1	1
MYCOLOGY PATHOGENIC	24	24	0	48		13	1	1
MORPHOLOGY AND CULTURES	24	24	0	48		37	1	1
MYCOLOGY INTRO. TO	36	36	0	72	192	37	1	1
MYCOLOGY MEDICAL	36	36	0	72		37	1	1
MYCOLOGY MEDICAL	32	96	0	128	256	65	1	1
YEASTS AND MOLDS	32	96	0	128		65	1	1

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
28	BOTANY, CONTINUED							
	BOTANY MEDICAL MYCOLOGY	18	96	0	114	67	1	1
	BOTANY, INTRO TO	36	36	0	72	68	1	1
29	PHYSICS							
	PHYSICS GENERAL	45	135	0	180	4	1	1
	PHYSICS	48	24	0	72	13	1	1
	PHYSICS GENERAL	96	96	0	192	27	1	1
	PHYSICS OF ELEMENTS	36	36	0	72	68	1	1
	PHYSICS GENERAL	48	48	0	96	76	1	1
	PHYSICS GENERAL	48	32	0	80	78	1	1
30	ZOOLOGY							
	ZOOLOGY	45	135	0	180	4	1	1
	ZOOLOGY	36	36	0	72	68	1	1
	ZOOLOGY	32	96	0	128	76	1	1
37	CHEMISTRY, QUANTITATIVE							
	ANALYSIS, QUANTITATIVE	45	270	0	315	4	1	1
	ANALYSIS, QUANTITATIVE	32	96	0	128	8	1	1
	QUANTITATIVE ANALYSI-2 SEMESTER	36	24	0	60	13	1	1
	ANALYSIS, QUANTITATIVE	48	48	0	96	27	1	1
	ANALYSIS, QUANTITATIVE	72	48	0	120	37	1	1
	ANALYSIS-PRINCIPLES 2 SEM.	32	48	0	80	65	1	1
	ANALYSIS, QUANTITATIVE	18	96	0	114	67	1	1
	CHEMISTRY QUANT-CLINICAL	16	96	0	112	67	1	1
	QUANTITATIVE, INTRO. TO	36	36	0	72	68	1	1
	QUALITATIVE ANAL.-QUAN. ANAL.	32	96	0	128	76	1	1
38	CHEMISTRY, QUALITATIVE							
	CHEMISTRY QUALITATIVE ANALYSIS-GENERAL	45	270	0	315	4	1	1
	ANALYSIS-GEN. AND QUALITATIVE	48	96	0	144	8	1	1
	CHEMISTRY QUALITATIVE	48	64	0	112	78	1	1
	QUALITATIVE ELEM.	32	64	0	96	78	1	1
39	CHEMISTRY, ORGANIC							
	CHEMISTRY ORGANIC	45	135	0	180	4	1	1
	CHEMISTRY, ORGANIC	45	135	0	180	4	1	1
	CHEMISTRY ORGANIC	48	48	0	96	8	1	1
	CHEMISTRY ORGANIC INTRO. TO	48	48	0	96	27	1	1
	CHEMISTRY ORGANIC	48	48	0	96	27	1	1
	CHEMISTRY GEN_ ORGANIC 2 SEM.	48	32	0	80	65	1	1
	CHEMISTRY ORGANIC	36	48	0	84	68	1	1
	CHEMISTRY ORGANIC	48	96	0	144	76	1	1

MEDICAL TECHNOLOGIST , CONTINUED

CAREER NUMBER 6

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
39	CHEMISTRY, ORGANIC, CONTINUED							
	CHEMISTRY ORGANIC ADV.	48	48	0	96	78	1	1
	CHEMISTRY ORGANIC	48	48	0	96	78	1	1
40	CHEMISTRY, INORGANIC							
	CHEMISTRY INORGANIC	48	48	0	96	8	1	1
41	BIOCHEMISTRY							
	BIOCHEMISTRY	45	0	0	45	4	1	1
	BIOCHEMISTRY GENERAL 2 SEM.	36	0	0	36	13	1	1
	BIOCHEMISTRY	0	504	0	504	24	1	3
	BIOCHEMISTRY CLINICAL	36	24	0	60 180	37	1	1
	BIOCHEMISTRY	72	48	0	120	37	1	1
	BIOCHEMISTRY GENERAL	48	64	0	112	67	1	1
	BIOCHEMISTRY	48	48	0	96	76	1	1
	BIOCHEMISTRY INTRO.	48	32	0	80	78	1	1
42	CLINICAL LAB, PROBLEMS, MED. TECH.							
	CLINICAL LAB METHODOLOGY	0	72	0	72	68	1	1
	CLINICAL LAB PRACTICUM	0	144	0	144	68	1	1
	CLINICAL LAB PROBLEMS, SEMINAR IN	0	24	0	24	68	1	1
43	HISTOLOGY							
	HISTOLOGY	30	180	0	210	4	1	1
	HISTOLOGY	32	96	0	128	8	1	1
	HISTOLOGY	0	80	0	80	58	1	3
	HISTOLOGY COMPARATIVE ANIMAL	32	80	0	112	78	1	1
44	IMMUNOLOGY							
	IMMUNOLOGY MEDICAL ADV.	30	270	0	300	4	1	1
	IMMUNOLOGY-SEROLOGY-INTRO	24	72	0	96	13	1	1
	IMMUNOLOGY	32	32	0	64	27	1	1
	IMMUNOLOGY AND SEROLOGY	36	36	0	72	37	1	1
	INFECTION-IMMUNITY 2 SEM.	32	96	0	128	65	1	1
	BACTERIAL PATHOGENS AND BASIC IMMUNOLOG	72	72	0	144	68	1	1
45	LAB. TECHNIQUES, MED. TECH.							
	LAB TECHNIQUE CLINICAL	24	36	0	60	13	1	1
	LAB, INSTRUMENTS AND MEDIA	36	0	0	36	37	1	1
	TECHNICIAN CLINICAL LAB	0	75	0	75	48	1	2

MEDICAL TECHNOLOGIST , CONTINUED

CAREER NUMBER 6

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
46	URINALYSIS							
	URINALYSIS AND CLINICAL MICROSCOPY	18	168	0	186	24	1	3
	URINALYSIS	20	140	0	160 } 320	58	1	3
	URINALYSIS	20	140	0	160	58	1	3
47	BLOOD BANK							
	BLOOD BANK	19	168	0	187	24	1	3
	BLOOD BANK	30	130	0	160 } 320	58	1	3
	BLOOD BANK	30	130	0	160	58	1	3
48	CYTOLOGY							
	CYTOLOGY	30	180	0	210	4	1	1
	CYTOLOGY	8	42	0	50	24	1	3
49	ELECTROCARDIOGRAPH [EKG]							
	EKG	0	40	0	40 } 40	58	1	3
	EKG	0	40	0	0	58	1	3
50	HEMATOLOGY							
	HEMATOLOGY	31	336	0	367	24	1	3
	HEMATOLOGY	60	420	0	480 } 960	58	1	3
	HEMATOLOGY	60	420	0	480	58	1	3
	HEMATOLOGY	16	32	0	48	67	1	1
51	MICRO-TECHNIQUE, MED. TECH.							
	MICROTECHNIQUE	0	270	0	270	4	1	1
	MICROTECHNIQUE	0	96	0	96	8	1	1
	MICROTECHNIQUE	32	64	0	96	78	1	1
52	PARASITOLOGY							
	PARASITOLOGY	45	135	0	180	4	1	1
	PARASITOLOGY	24	24	0	48	13	1	1
	PARASITOLOGY	20	126	0	146	24	1	3
	PARASITOLOGY	36	48	0	82	37	1	1
	PARASITOLOGY	32	0	0	32 } 96	67	1	1
	PARASITOLOGY	32	32	0	64	67	1	1
	PARASITOLOGY	32	64	0	96	78	1	1

MEDICAL TECHNOLOGIST, CONTINUED

CAREER NUMBER 6

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
53	PATHOLOGY							
	PATHOLOGY	36	60	0	96} 204	37	1	1
	PATHOLOGY	36	72	0	108}	37	1	1
54	SEROLOGY							
	SEROLOGY	17	168	0	185} 319	24	1	3
	TISSUE	8	126	0	134}	24	1	3
	SEROLOGY	20	140	0	160} 320	58	1	3
	SEROLOGY	20	140	0	160}	58	1	3
	SEROLOGY	16	144	0	160	67	1	1
55	VIROLOGY							
	VIROLOGY	36	0	0	36} 60	13	1	1
	VIROLOGY	0	24	0	24}	13	1	1
	VIROLOGY	32	48	0	80	67	1	1
83	RADIOGRAPHIC ISOTOPES							
	RADIOISOTOPE	3	42	0	45	24	1	3
124	GENERAL EDUCATION							
	GENETICS	45	0	0	45	4	1	1
	BIOLOGY	48	48	0	96	8	1	1
	BIOLOGY	96	96	0	192	27	1	1
	SCIENCE, NATURAL	108	108	0	216	37	1	1
	BIOLOGY	48	16	0	64	67	1	1
	BIOLOGY	48	48	0	96	76	1	1
	BIOLOGY	48	64	0	112	78	1	1
125	ELECTIVES							
	ELECTIVES	0	0	0	0	4	1	1
	ELECTIVES	0	0	0	1350	24	1	3
	ELECTIVES	0	0	0	1410	58	1	3

MEDICAL SECRETARY

CAREER NUMBER 7

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
0	UNCOMMON							
	FIELD TRIPS-QUEST LECTURES-MISC.	36	0	0	36	16	1	5
.4	ANATOMY AND PHYSIOLOGY							
	ANATOMY-ASTEO AND PATH	60	0	0	60	10	1	1
	TOPOGRAPHICAL ANATOMY ELEM. PHYSIOLOGY	80	0	0	80	16	1	5
	ANATOMY AND PHYSIOLOGY	0	0	0	0	17	1	2
	ANATOMY AND PHYSIOLOGY	130	0	0	130	22	0	3
	ANATOMY AND PHYSIOLOGY	60	0	0	60	44	1	1
	ANATOMY AND PHYSIOLOGY	30	0	0	30	64	1	5
	ANATOMY AND PHYSIOLOGY 1	12	0	0	12	83	1	5
	ANATOMY AND PHYSIOLOGY 2	12	0	0	12 } 48	83	1	5
	ANATOMY AND PHYSIOLOGY 3	24	0	0	24	83	1	5
.6	HUMAN GROWTH AND DEVELOPMENT							
	PERSONAL DEVELOPMENT	48	0	0	48	10	1	1
	HUMAN DEVELOPMENT	45	0	0	45 } 90	48	1	2
	HUMAN DEVELOPMENT	45	0	0	45	48	1	2
.13	ETHICS, PROFESSIONAL							
	FUTURE-FACING	24	0	0	24	16	1	5
	LOGIC-ETHICS ADV.	30	0	0	30 } 60	44	1	1
	LOGIC-ETHICS	30	0	0	30	44	1	1
	ETHICS AND MEDICAL	24	0	0	24	83	1	5
.15	MATHEMATICS							
	MATHEMATICS	45	0	0	45	44	1	1
	MATH-BUSINESS	75	0	0	75	47	0	4
	MATHEMATICS	45	0	0	45	64	1	5
	MATH-BUSINESS	24	0	0	24	83	1	5
.16	PSYCHOLOGY, GENERAL							
	PSYCHOLOGY	0	0	0	0	17	1	2
	PSYCHOLOGY PERSONALITY ADJUSTMENT	45	0	0	45	44	1	1
18	HUMAN RELATIONSHIPS							
	HUMAN RELATIONS	52	0	0	52	10	1	1
	PROBLEMS CONTEMPORARY	45	0	0	45	44	1	1

MEDICAL SECRETARY, CONTINUED

CAREER NUMBER 7

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
20	MICROBIOLOGY							
	BACTERIOLOGY	24	36	0	60	10	1	1
25	THEOLOGY							
	THEOLOGY	30	0	0	30 }	44	1	1
	THEOLOGY	30	0	0	30 } 90	44	1	1
	THEOLOGY	30	0	0	30 }	44	1	1
27	FIRST AID							
	FIRST AID	0	0	0	0	17	1	2
34	PSYCHOLOGY, APPLIED							
	PSYCHOLOGY APPLIED	52	0	0	52	16	1	5
45	LAB. TECHNIQUES, MED. TECH.							
	LABORATORY TECHNIQUE	0	228	0	228	16	1	5
	LABORATORY MEDICAL	0	0	0	0	17	1	2
	TECHNICIAN CLINICAL LAB	0	45	0	45	48	1	2
46	URINALYSIS							
	GASTRICS AND URINE	24	36	0	60	10	1	1
50	HEMATOLOGY							
	HEMATOLOGY	48	72	0	120	10	1	1
56	ACCOUNTING							
	ACCOUNTING	0	0	0	0	17	1	2
	ACCOUNTING	45	0	0	45 } 90	44	1	1
	ACCOUNTING	45	0	0	45 }	44	1	1
	ACCOUNTING SECRETARIAL	45	0	0	45 } 90	48	1	2
	ACCOUNTING SECRETARIAL	45	0	0	45 }	48	1	2
	ACCOUNTING FOR PHYSICIAN	105	0	0	105	64	1	5
	COLLECTION AND CREDIT	24	0	0	24	83	1	5
57	ANATOMY-PHYSICS							
	ANATOMY PHYSICS 1	36	0	0	36 }	10	1	1
	ANATOMY PHYSICS 2	36	0	0	36 }	10	1	1
	ANATOMY PHYSICS 3	36	0	0	36 }	10	1	1
	ANATOMY PHYSICS 4	36	0	0	36	10	1	1

MEDICAL SECRETARY, CONTINUED

CAREER NUMBER 7

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
58	BUSINESS CORRESPONDENCE							
	CORRESPONDENCE BUSINESS	0	0	0	0	17	1	2
	ENGLISH BUSINESS	0	0	0	0	17	1	2
	ENGLISH BUSINESS	150	0	0	150	47	0	4
	ENGLISH MEDICAL SECRETARIES	32	0	0	32	47	0	4
	CUMMUNICATION BUSINESS	45	0	0	45	48	1	2
	CORRESPONDENCE ENGLISH	12	0	0	12	83	1	5
59	SHORTHAND, GENERAL AND MEDICAL							
	SHORTHAND MEDICAL ADV.	0	60	0	60	10	1	1
	SHORTHAND MEDICAL	0	60	0	60	10	1	1
	SHORTHAND TECHNICAL ADV.	0	60	0	60	10	1	1
	SHORTHAND TECHNICAL	0	60	0	60	10	1	1
	SHORTHAND	0	280	0	280	16	1	5
	DICTION MEDICAL	0	0	0	0	17	1	2
	SHORTHAND	0	0	0	0	17	1	2
	SHORTHAND MEDICAL ADV.	45	0	0	45	44	1	1
	SHORTHAND MEDICAL	45	0	0	45	44	1	1
	SHORTHAND BEG. AND ADV.	0	150	0	150	47	0	4
	DICTATION MEDICAL OFFICE	0	45	0	45	48	1	2
	DICTATION TRANSCRIBING MEDICAL	0	0	90	90	48	1	2
	DICTATION TRANSCRIPTION MEDICAL	0	0	90	90	48	1	2
	SHORTHAND MEDICAL	0	90	0	90	48	1	5
	SHORTHAND	0	75	0	75	48	1	2
	SHORTHAND	180	0	0	180	64	1	5
	DICTATION TRANSCRIPTION MEDICAL	12	0	180	192	83	1	5
	SHORTHAND 1	72	0	0	72	83	1	5
	SHORTHAND 2	36	0	78	114	83	1	5
	SHORTHAND 3	24	0	72	96	83	1	5
60	FILING							
	FILING	0	75	0	75	47	0	4
	FILING	15	0	0	15	64	1	5
	OFFICE PRACTICE FILING INTRO. TO BUS.	24	0	0	24	83	1	5
61	OFFICE MACHINES							
	MACHINES OFFICE	30	0	0	30	44	1	1
	MACHINES OFFICE	0	75	0	75	47	0	4
	MACHINE ELECTIVES	30	0	0	30	64	1	5

MEDICAL SECRETARY , CONTINUED

CAREER NUMBER 7

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
-62	OFFICE PRACTICE							
	OFFICE PRACTICE CLINICAL	0	0	120	120 } 204	10	1	1
	OFFICE PRACTICE MEDICAL	84	0	0	84	10	1	1
	OFFICE PRACTICE CLINICAL	78	0	0	78	16	1	5
	CLINICAL PRACTICE	0	0	120	120	17	1	2
	OFFICE NURSING TECHNIQUES MEDICAL	0	30	0	30	48	1	2
	OFFICE PROCEDURES	15	0	0	15	64	1	5
	INSURANCE FORMS	12	0	0	12	83	1	5
	LAW-APPLIED FUNDAMENTALS	12	0	0	12	83	1	5
	OFFICE PRACTICE ADV.	0	0	72	72	83	1	5
	OFFICE PRACTICE PRODUCTION	12	0	0	12 } 36	83	1	5
	OFFICE PRACTICE TRANSC. MACHINES	12	0	36	48	83	1	5
	RECORD KEEPING OFFICE	24	0	0	24	83	1	5
	RECORDS OFFICE	12	0	36	48	83	1	5
	TELEPHONE USAGE TECHNIQUES	12	0	36	48	83	1	5
63	SECRETARIAL PRACTICE AND PROCEDURES							
	SECTETARIAL DUTIES MED	350	0	0	350	16	1	5
	SECRETARIAL MEDICAL TECH	30	0	0	30	44	1	1
	SECRETARIAL PROCEDURE	30	0	0	30 } 90	44	1	1
	SECRETARIAL PROCEDURE	30	0	0	30	44	1	1
	SECRETARIAL PRACTICE MEDICAL	0	0	48	48	47	0	4
	SECRETARY FUNDAMENTALS MEDICAL	40	0	0	40	47	0	4
	SECRETARIAL PRACTICE MEDICAL	30	0	0	30 } 75	64	1	5
	SECRETARIAL STUDIES MEDICAL	45	0	0	45	64	1	5
	ASSISTING-MEDICAL	12	0	36	48 } 72	83	1	5
	SECRETARIAL AUTOMATED PROC. MED.	24	0	0	24	83	1	5
64	TERMINOLOGY, MEDICAL							
	TERMINOLOGY AND MEDICAL	0	0	0	0	17	1	2
	TERMINOLOGY AND MEDICAL 1	15	0	0	15	48	1	2
	TERMINOLOGY AND MEDICAL 2	30	0	0	30 } 75	48	1	2
	TERMINOLOGY AND MEDICAL 3	15	0	0	15	48	1	2
	TERMINOLOGY AND MEDICAL 4	15	0	0	15	48	1	2
	ENGLISH-VOCAB. BLDG. SPELLING	45	0	0	45 } 75	64	1	5
	TERMINOLOGY AND MEDICAL	30	0	0	30	64	1	5
	VOCABULARY BLDG. MEDICAL 2	48	0	0	48	83	1	5
	VOCABULARY BLDG. MEDICAL 3	48	0	0	48 } 146	83	1	5
	VOCABULARY BLDG. MEDICAL	48	0	0	48	83	1	5
	VOCABULARY SKILLS	12	0	0	12	83	1	5

MEDICAL SECRETARY , CONTINUED

CAREER NUMBER 7

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
65	TYPING							
	TYPING 1	0	60	0	60	10	1	1
	TYPING 2	0	60	0	60 240	10	1	1
	TYPING 3	0	60	0	60	10	1	1
	TYPING 4	0	60	0	60	10	1	1
	TYPING	0	230	0	230	16	1	5
	TYPING	0	0	0	0	17	1	2
	TRANSCRIBING	0	0	1560	1560	22	0	3
	TYPEWRITING-SHORTHAND ADV.	45	0	0	45	44	1	1
	TYPEWRITING-SHORTHAND	45	0	0	45	44	1	1
	TYPING ADV. MEDICAL	0	0	20	20	47	0	4
	TYPING	0	150	0	150 330	47	0	4
	TYPING	0	60	0	60	47	0	4
	TYPING	0	0	75	75	48	1	2
	TYPING	0	75	0	75 225	48	1	2
	TYPING	0	0	75	75	48	1	2
	TYPING	90	0	0	90	64	1	5
	TYPING-PRODUCTION 2	12	0	36	48	83	1	5
	TYPING 3	0	0	36	36 108	83	1	5
	TYPING	24	0	0	24	83	1	5
.66	ECONOMICS							
	ECONOMICS PRINCIPLES	45	0	0	45	44	1	1
67	MEDICAL SCIENCE CONFERENCES							
	MEDICAL SCIENCE CONFERENCES	130	0	0	130	22	0	3
	REPORT, RESEARCH-MEDICAL TERM PAPER	12	0	0	12	83	1	5
81	RADIATION PHYSICS							
	X-RAY AND PHYSICS	12	0	0	12	10	1	1
124	GENERAL EDUCATION							
	COMMUNICATIONS 1	36	0	0	36	10	1	1
	COMMUNICATIONS 2	36	0	0	36 72	10	1	1
	COMMUNICATIONS 3	24	0	0	24	10	1	1
	COMMUNICATIONS 4	24	0	0	24	10	1	1
	ART-MUSIC APPRECIATION	30	0	0	30	44	1	1
	ART-MUSIC APPRECIATION	30	0	0	30	44	1	1
	ENGLISH LITERATURE ADV.	45	0	0	45 240	44	1	1
	ENGLISH LITERATURE	45	0	0	45	44	1	1
	ENGLISH	45	0	0	45	44	1	1
	ENGLISH	45	0	0	45	44	1	1

MEDICAL SECRETARY, CONTINUED

CAREER NUMBER 7

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
124	GENERAL EDUCATION, CONTINUED							
	SPEECH PRINCIPLES	30	0	0	30	44	1	1
	ENGLISH COMP.	45	0	0	45	48	1	2
	ENGLISH	45	0	0	45	48	1	2
	LITERATURE GENERAL	45	0	0	45	48	1	2
	PHYSICAL EDUCATION	0	30	0	30	48	1	2
	PHYSICAL EDUCATION	0	30	0	30	48	1	2
	ENGLISH PUNCTUATION COMPOSITION	45	0	0	45	64	1	5
	ENGLISH SENTENCE CONST.	30	0	0	30	64	1	5
	PARLIAMENTARY PROCED. PUB. SPEAKING	30	0	0	30	64	1	5
	ENGLISH GRAMMAR APPLIED	12	0	0	12	83	1	5
125	ELECTIVES							
	ELECTIVES	45	0	0	45	48	1	2
	ELECTIVES	45	0	0	45	48	1	2

RADIOLOGIC TECHNOLOGIST

CAREER NUMBER 8

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
3	ANATOMY							
	ANATOMY-CHORDATE	45	45	0	90	58	1	1
	ANATOMY TOPOGRAPHIC	12	30	225	267 624	58	1	3
	ANATOMY TOPOGRAPHIC	12	30	225	267	58	1	3
4	ANATOMY AND PHYSIOLOGY							
	ANATOMY AND PHYSIOLOGY	30	45	0	75 210	43	1	2
	ANATOMY AND PHYSIOLOGY	45	90	0	135	43	1	2
	ANATOMY AND PHYSIOLOGY	45	45	0	90	58	1	1
	ANATOMY AND PHYSIOLOGY	57	45	0	102 294	58	1	2
	ANATOMY AND PHYSIOLOGY	57	45	0	102	58	1	2
	ANATOMY AND PHYSIOLOGY	45	45	0	90	66	1	1
	ANATOMY + PHYSIOLOGY	30	0	0	30	103	1	2
	ANATOMY + PHYSIOLOGY	30	45	0	75 180	103	1	2
	ANATOMY AND PHYSIOLOGY	30	0	0	30	103	1	2
	ANATOMY AND PHYSIOLOGY	45	0	0	45	103	1	2
	ANATOMY AND PHYSIOLOGY	105	45	0	150	104	1	3
	ANATOMY + PHYSIOLOGY	30	45	0	75	105	1	1
	ANATOMY + PHYSIOLOGY	30	0	0	30 180	105	1	1
	ANATOMY + PHYSIOLOGY	30	45	0	75	105	1	1
5	CHEMISTRY, GENERAL							
	CHEMISTRY, GENERAL	60	45	0	105	43	1	2
	CHEMISTRY GENERAL	45	45	0	90	58	1	1
	CHEMISTRY QUALITATIVE ANALYSIS-GENERAL	45	90	0	135	58	1	1
	CHEMISTRY, GENERAL	45	45	0	90	103	1	2
	CHEMISTRY, GENERAL	30	45	0	75 150	105	1	1
	CHEMISTRY, GENERAL	30	45	0	75	105	1	1
13	ETHICS, PROFESSIONAL							
	ETHICS PROFESSIONAL	5	0	150	155 310	58	1	3
	ETHICS PROFESSIONAL	5	0	150	155	58	1	3
	ETHICS, PROFESSIONAL	10	0	0	10	104	1	3
	ETHICS, PROFESSIONAL	45	0	0	45	105	1	1
15	MATHEMATICS							
	ALGEBRA, COLLEGE	45	0	0	45	43	1	2
	ALGEBRA COLLEGE	45	0	0	45 90	58	1	1
	TRIGONOMETRY	45	0	0	45	58	0	0
	ALGEBRA [COLLEGE] + TRIGONOMETRY	45	0	0	45	105	1	1

RADIOLOGIC TECHNOLOGIST, CONTINUED

CAREER NUMBER 8

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
16	PSYCHOLOGY, GENERAL							
	PSYCHOLOGY	45	0	0	45	43	1	2
	PSYCHOLOGY	45	0	0	45	58	1	1
	PSYCHOLOGY	45	0	0	45	103	1	2
	PSYCHOLOGY	60	0	0	60	105	1	1
17	HEALTH, PERSONAL AND COMMUNITY							
	HEALTH EDUCATION	30	0	0	30	43	1	2
	HEALTH, PERSONAL	30	0	0	30	103	1	2
19	SOCIOLOGY							
	SOCIOLOGY	45	0	0	45	43	1	2
	SCIENCE AND SOCIAL	75	0	0	75	58	1	1
20	MICROBIOLOGY							
	MICROBIOLOGY	45	45	0	90	103	1	2
27	FIRST AID							
	FIRST AID	15	0	0	15	103	1	2
29	PHYSICS							
	PHYSICS, GENERAL	45	0	0	45	43	1	2
	PHYSICS GENERAL	45	45	0	90 } 180	58	1	1
	PHYSICS GENERAL	45	45	0	90	58	1	1
	PHYSICS, GENERAL	30	45	0	75	103	1	2
	PHYSICS, GENERAL	45	45	0	90 } 180	105	1	1
	PHYSICS, GENERAL	45	45	0	90	105	1	1
30	ZOOLOGY							
	EMBRYOLOGY	0	45	0	45 } 135	58	1	1
	ZOOLOGY	45	45	0	90	58	1	1
64	TERMINOLOGY, MEDICAL							
	TERMINOLOGY AND MEDICAL	12	0	0	12 } 24	58	1	3
	TERMINOLOGY AND MEDICAL	12	0	0	12	58	1	3
	INTRODUCTION TO X-RAY TECHNOLOGY	45	0	0	45 } 105	103	1	2
	TERMINOLOGY, MEDICAL	30	0	0	30	103	1	2
	TERMINOLOGY, MEDICAL	30	0	0	30	103	1	2
	TERMINOLOGY, MEDICAL	45	0	0	45	105	1	1

RADIOLOGIC TECHNOLOGIST, CONTINUED

CAREER NUMBER 8

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
68	ADMINISTRATION, DEPARTMENTAL							
	ADMINISTRATION DEPARTMENTAL	30	0	0	30 75	43	1	2
	ADMINISTRATION DEPARTMENTAL	45	0	0	45	43	1	2
	ADMINISTRATION DEPARTMENTAL	10	0	225	235	58	1	3
	ADMINISTRATION DEPARTMENTAL	10	0	225	235 470	58	1	3
	ADMINISTRATION DEPARTMENTAL	30	0	0	30	103	1	2
	ADMINISTRATION DEPARTMENTAL	15	0	0	15	105	1	1
	ADMINISTRATION DEPARTMENTAL	0	0	75	75	105	1	3
	ADMINISTRATION, DEPARTMENTAL	30	0	0	30 600	105	1	1
	ADMINISTRATION, DEPARTMENTAL	0	0	450	450	105	1	3
	PARLIAMENTARY PROCEDURE	15	0	0	15	105	1	1
	PARLIAMENTARY PROCEDURES [FUNDAMENTAL]	15	0	0	15	105	1	1
69	FILM CRITIQUE							
	CRITIQUE, FILM 1	20	0	0	20	58	1	3
	CRITIQUE, FILM 1	20	0	0	20	58	1	3
	CRITIQUE, FILM 2	30	0	0	30	58	1	3
	CRITIQUE, FILM 2	30	0	0	30 170	58	1	3
	CRITIQUE, FILM 3	15	0	0	15	58	1	3
	CRITIQUE, FILM 3	15	0	0	15	58	1	3
	CRITIQUE, FILM 4	20	0	0	20	58	1	3
	CRITIQUE, FILM 4	20	0	0	20	58	1	3
	FILM CRITIQUE	52	0	0	52	104	1	3
	FILM,CRITIQUE	52	0	0	52	104	1	3
	CRITIQUE, FILM	30	0	0	30	105	1	1
70	DARKROOM CHEMISTRY AND TECHNIQUE							
	DARKROOM- CHEMISTRY AND TECHNIQUE	10	6	160	176	58	1	3
	DARKROOM- CHEMISTRY AND TECHNIQUE	10	6	160	176	58	1	3
	DARKROOM CHEMISTRY AND TECHNIQUE	30	0	0	30	104	1	3
	DARKROOM-CHEMISTRY + TECHNIQUE	30	0	0	30	105	1	1
	DARKROOM-CHEMISTRY + TECHNIQUE	0	0	75	75	105	1	3
71	DISEASES, MEDICAL SURGICAL							
	DISEASES- MEDICAL SURGICAL SURVEY	15	0	225	240	58	1	3
	DISEASES- MEDICAL SURGICAL SURVEY	15	0	225	240	58	1	3

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
72	EQUIPMENT, RADIOLOGY							
	EQUIP. RADIOLOGY MAINT.	6	45	0	51	58	1	3
	EQUIP. RADIOLOGY MAINT.	6	45	0	51	58	1	3
73	RADIATION THERAPY							
	RADIATION THERAPY	10	0	225	235	58	1	3
	RADIATION THERAPY	10	0	225	235	58	1	3
	RADIATION THERAPY	30	0	0	30	103	1	2
	THERAPY, RADIATION	30	0	0	30	105	1	1
	THERAPY, RADIATION	0	0	150	150	105	1	3
74	RADIATION SAFETY							
	RADIATION-ELECTRIC PROTEC.-PATIENTS PER	10	0	225	235	58	1	3
	RADIATION-ELECTRIC PROTEC.-PATIENTS PER	10	0	225	235	58	1	3
	RADIATION-ORIENTATION-ELM PROTECTION	5	40	0	45 560	58	1	3
	RADIATION-ORIENTATION-ELM PROTECTION	5	40	0	45	58	1	3
75	RADIOGRAPHIC EXPOSURE TECHNIQUES							
	RADIOGRAPHIC EXPOS.-CONVR.-TECHN.-PRIN.	45	0	0	45	43	1	2
	RADIOGRAPHIC EXPOSURE PRINC.	45	0	0	45	43	1	2
	RADIOGRAPHIC EXPOS.-CONVR.-TECHN.-PRIN.	10	0	225	235	58	1	3
	RADIOGRAPHIC EXPOS.-CONVR.-TECHN.-PRIN.	10	0	225	235	58	1	3
	RADIOGRAPHIC EXPOSURE PRINC. ADV.	10	0	225	235	58	1	3
	RADIOGRAPHIC EXPOSURE PRINC. ADV.	10	0	225	235	58	1	3
	RADIOGRAPHIC EXPOSURE PRINC.	10	0	225	235	58	1	3
	RADIOGRAPHIC EXPOSURE PRINC.	10	0	225	235	58	1	3
	RADIOGRAPHIC EXPOS.-CONVR.-TECHN.-PRIN.	50	0	0	50	104	1	3
	RADIOGRAPHIC EXPOS-CONVR-TECHN-PRINT	50	0	0	50	104	1	3
	RADIOGRAPHIC EXPOS-CONVR-TECHN-PRIN.	30	0	0	30	105	1	1
	RADIOGRAPHIC EXPOS-CONVR-TECHN-PRIN.	30	0	0	30	105	1	1
	RADIOGRAPHIC EXPOS-CONVR-TECHN-PRIN.	0	0	150	150	105	1	3
	RADIOGRAPHIC EXPOS-CONVR-TECHN-PRIN.	0	0	150	150	105	1	3
	RADIOGRAPHIC EXPOSURE PRINC.	15	0	0	15	105	1	1
	RADIOGRAPHIC EXPOSURE PRINC.	30	0	0	30	105	1	1
76	RADIOGRAPHIC POSITIONING							
	RADIOGRAPHIC POSITIONING-ROUTINE ADV.	20	0	225	245	58	1	3
	RADIOGRAPHIC POSITIONING-ROUTINE	15	0	225	240	58	1	3
	RADIOGRAPHIC POSITIONING-ROUTINE	15	0	225	240	58	1	3
	RADIOGRAPHIC POSITIONING-ROUTINE	20	0	225	245	58	1	3
	RADIOGRAPHIC POSITIONING NON-ROUTINE	30	0	225	255	58	1	3
	RADIOGRAPHIC POSITIONING NON-ROUTINE	30	0	225	225	58	1	3

RADIOLOGIC TECHNOLOGIST, CONTINUED

CAREER NUMBER 8

		LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
76	RADIOGRAPHIC POSITIONING, CONTINUED								
	RADIOGRAPHIC POSITIONING	0	0	1723	1723		104	1	3
	RADIOGRAPHIC POSITIONING	30	0	0	30		105	1	1
	RADIOGRAPHIC POSITIONING	0	0	150	150		105	1	3
	RADIOGRAPHIC POSITIONING	0	0	150	150		105	1	3
77	RADIOGRAPHIC PROCEDURES								
	RADIOGRAPHIC PROCED.	120	0	2440	2560		43	1	2
	RADIOGRAPHIC PROCED.-SP.	38	0	225	263		58	1	3
	RADIOGRAPHIC PROCED.-SP.	38	0	225	263		58	1	3
	RADIOGRAPHIC PROCED - CONTRACT MEDIA- R	10	0	225	235		58	1	3
	RADIOGRAPHIC PROCED - CONTRACT MEDIA- R	10	0	225	235		58	1	3
	RADIOGRAPHIC PROCED.	15	0	225	240		66	1	3
	RADIOGRAPHIC PROCED.	45	0	659	704		66	1	3
	RADIOGRAPHIC PROCED.	45	0	659	704		66	1	3
	RADIOGRAPHIC PROCED.	0	0	300	300		103	1	3
	RADIOGRAPHIC PROCEDURES	15	0	225	240		103	1	3
	RADIOGRAPHIC PROCEDURES	30	0	75	105		103	1	3
	RADIOGRAPHIC PROCEDURES	0	0	300	300		103	1	3
	RADIOGRAPHIC PROCEDURES	30	0	0	30		104	1	3
	RADIOGRAPHIC PROCED.	0	0	150	150		105	1	3
	RADIOGRAPHIC PROCED	30	0	0	30		105	1	1
78	RADIOGRAPHY, INTRA-ORAL								
	RADIOGRAPHY INTRAORAL	8	0	225	233	466	58	1	3
	RADIOGRAPHY INTRAORAL	8	0	225	233		58	1	3
	DENTAL [X-RAY TECH]	30	0	0	30		103	1	2
79	RADIOGRAPHY, PEDIATRICS								
	RADIOGRAPHY PEDIATRIC	10	0	225	235	470	58	1	3
	RADIOGRAPHY PEDIATRIC	10	0	225	235		58	1	3
	RADIOGRAPHY, PEDIATRIC	15	0	0	15	165	105	1	1
	RADIOGRAPHY, PEDIATRIC	0	0	150	150		105	1	3
80	RADIOLOGY, NURSING PROCEDURES								
	RADIOLOGY HOSP. NURSING PROCEDURE	10	0	225	235	470	58	1	3
	RADIOLOGY NURSING PROCEDURES	10	0	225	235		58	1	3
	RADIOLOGY NURSING PROCEDURES	30	0	0	30		103	1	3
	RADIOLOGY NURSING PROCEDURES	15	0	0	15	30	104	1	3
	RADIOLOGY NURSING PROCEDURES	15	0	0	15		104	1	3
	RADIOLOGY NURSING PROCEDURES	30	0	0	30	105	105	1	1
	RADIOLOGY NURSING PROCEDURES	0	0	75	75		105	1	3

CAREER NUMBER 8

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
.81	RADIATION PHYSICS							
	X-RAY RADIUM AND PHYSICS FUND.	40	42	0	82	58	1	3
	X-RAY RADIUM PHYSICS FUND. ADV.	20	20	0	40 162	58	1	3
	X-RAY RADIUM PHYSICS FUND. ADV.	20	20	0	40	58	1	3
	X-RAY-RADIUM PHYSICS	40	42	0	82	59	1	3
	X-RAY RADIUM PHYSICS	30	45	0	75 125	104	1	3
	X-RAY RADIUM PHYSICS	50	0	0	50	104	1	3
	X-RAY, RADIUM PHYSICS	30	0	0	30	105	1	1
.82	RADIATION THERAPY							
	INTRODUCTION TO X-RAY + X-RAY TECHNOLOG	15	0	0	15 60	43	1	2
	INTRODUCTION TO X-RAY + X-RAY TECHNOLOG	45	0	0	45	43	1	2
	RADIOGRAPHIC EXPOSURE ADV.	10	0	225	235	58	1	3
	ROENTGENOGRAPHY, INTRODUCTION TO	15	0	0	15	105	1	1
.83	RADIOGRAPHIC ISOTOPES							
	RADIOACTIVE ISOTOPES MED. FAMILIARIZATI	8	0	150	158	58	1	3
	RADIOACTIVE ISOTOPES MED FAMILIARIZATIO	30	0	0	30	105	1	1
124	GENERAL EDUCATION							
	ART, INTRODUCTION TO	30	0	0	30	43	1	2
	ART, INTRODUCTION TO	30	0	0	30	43	1	2
	ENGLISH	45	0	0	45	43	1	2
	ENGLISH	45	0	0	45	43	1	2
	ENGLISH	45	0	0	45	43	1	2
	HISTORY, AMERICAN	30	0	0	30	43	1	2
	INSTITUTIONS, POLITICAL [AMERICAN]	30	0	0	30	43	1	2
	PHYSICAL EDUCATION	0	30	0	30	43	1	2
	PHYSICAL EDUCATION	0	30	0	30	43	1	2
	PHYSICAL EDUCATION	0	30	0	30	43	1	2
	PHYSICAL EDUCATION	0	30	0	30	43	1	2
	ENGLISH	45	0	0	45	58	1	1
	ENGLISH	45	0	0	45	58	1	1
	GENETICS	45	0	0	45	58	1	1
	HUMANITIES	120	0	0	120	58	1	1
	PHYSICAL EDUCATION	8	0	0	8	58	1	1
	PHYSICAL EDUCATION	8	0	0	8	58	1	1
	ENGLISH	45	0	0	45	103	1	2
	ENGLISH	45	0	0	45	103	1	2
	PHYSICAL EDUCATION	0	30	0	30	103	1	2
	PHYSICAL EDUCATION	0	30	0	30	103	1	2
	PHYSICAL EDUCATION	0	30	0	30	103	1	2

RADIOLOGIC TECHNOLOGIST, CONTINUED

CAREER NUMBER 8

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
124	GENERAL EDUCATION, CONTINUED							
	PHYSICAL EDUCATION	0	30	0	30	103	1	2
	POLITICAL SCIENCE	45	0	0	45	103	1	2
	AIR SCIENCE	30	0	0	30	105	1	1
	AIR SCIENCE	30	0	0	30	105	1	1
	BIOLOGY, GENERAL	45	45	0	90	105	1	1
	ENGLISH	30	0	0	30	105	1	1
	ENGLISH	45	0	0	45	105	1	1
	ENGLISH	45	0	0	45	105	1	1
	ENGLISH	45	0	0	45	105	1	1
	HUMANITIES	45	0	0	45	105	1	1
	HUMANITIES	45	0	0	45	105	1	1
	HUMANITIES	45	0	0	45	105	1	1
	HUMANITIES	45	0	0	45	105	1	1
	HUMANITIES	45	0	0	45	105	1	1
	PHYSICAL EDUCATION	45	0	0	45	105	1	1
	PHYSICAL EDUCATION	0	45	0	45	105	1	1
125	ELECTIVES							
	ELECTIVE	30	0	0	30	43	1	2
	ELECTIVES	30	0	0	30	43	1	2
	ELECTIVES	30	0	0	30	43	1	2
	ELECTIVES	120	0	0	120	58	1	1
	ELECTIVES	135	0	0	135	58	1	1
	ELECTIVES	8	0	225	233	58	1	3
	ELECTIVES	8	0	225	233	58	1	3
	ELECTIVE	30	0	0	30	103	1	2
	ELECTIVES	45	0	115	160	104	1	3
	ELECTIVES	30	0	0	30	105	1	1
	ELECTIVES	45	0	0	45	105	1	1

DENTAL HYGIENIST

CAREER NUMBER 9

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
0	UNCOMMON							
	EDUCATION, INTRODUCTION TO	0	0	0	0	27	1	1
3	ANATOMY							
	ANATOMY GROSS	0	0	0	0	30	1	1
	MICRO. ANATOMY	0	0	0	0	30	1	1
	ANATOMY-ORAL	30	30	0	60	74	1	1
4	ANATOMY AND PHYSIOLOGY							
	ANATOMY PHYSIOLOGY HEAD AND NECK	0	0	0	0	27	1	1
	ANATOMY AND PHYSIOLOGY	32	0	0	32 164	73	1	1
	ANATOMY AND PHYSIOLOGY	36	96	0	132	73	1	1
	ANATOMY AND PHYSIOLOGY	45	0	0	45 90	74	1	1
	ANATOMY AND PHYSIOLOGY	0	45	0	45	74	1	1
5	CHEMISTRY, GENERAL							
	CHEMISTRY	0	0	0	0	27	1	1
	CHEMISTRY	60	0	0	60	30	1	1
	CHEMISTRY GENERAL	48	32	0	80	73	1	1
	CHEMISTRY	45	45	0	90 180	74	1	1
	CHEMISTRY	45	45	0	90	74	1	1
6	HUMAN GROWTH AND DEVELOPMENT							
	GROWTH AND DEVELOPMENT	0	0	0	0	30	1	1
	PSYCHOLOGY CHILD	48	0	0	48	73	1	1
10	PHYSIOLOGY							
	PHYSIOLOGY	0	0	0	0	27	1	1
	PHYSIOLOGY	0	0	0	0	30	1	1
12	VOCATIONAL RELATIONSHIPS							
	COUNSELING AND INTERVIEWING	0	0	0	0	30	1	1
13	ETHICS, PROFESSIONAL							
	ETHICS AND JURISPRUDENCE, DENTAL	0	0	0	0	27	1	1
	ETHICS AND JURISPRUDENCE, DENTAL	0	0	0	0	30	1	1
	ETHICS-ECONOMICS-JURISPRUDENCE	32	0	0	32	73	1	1
	MANAGEMENT ETHICS PRAC.	15	0	0	15	74	1	1

DENTAL HYGIENIST, CONTINUED

CAREER NUMBER 9

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
14	NUTRITION							
	NUTRITION AND DIETETICS	0	0	0	0	27	1	1
	NUTRITION + CAVITIES CONTROL	0	0	0	0	30	1	1
	NUTRITION	32	0	0	32	73	1	1
	NUTRITION	30	0	0	30	74	1	1
15	MATHEMATICS							
	MATHEMATICS	75	0	0	75	27	1	1
16	PSYCHOLOGY, GENERAL							
	PSYCHOLOGY	45	0	0	45	27	1	1
	PSYCHOLOGY GENERAL	48	0	0	48	73	1	1
	PSYCHOLOGY GENERAL	45	0	0	45	74	1	1
17	HEALTH, PERSONAL AND COMMUNITY							
	MENTAL HYGIENE, INTRODUCTION TO	0	0	0	0	3	1	1
	HEALTH PERSONAL COMMUNITY	0	0	0	0	30	1	1
	HEALTH-PUBLIC	32	0	0	32	73	1	1
19	SOCIOLOGY							
	SOCIOLOGY	45	0	0	45	27	1	1
	SCIENCE AND SOCIAL	120	0	0	120	30	1	1
	SOCIOLOGY-PRINCIPLES	48	0	0	48	73	1	1
	SOCIOLOGY	45	0	0	45	74	1	1
20	MICROBIOLOGY							
	BACTERIOLOGY	0	0	0	0	27	1	1
	BACTERIOLOGY AND PATHOLOGY	0	0	0	0	30	1	1
	BACTERIOLOGY	30	45	0	75	74	1	1
24	PHARMACOLOGY							
	PHARMACOLOGY	0	0	0	0	27	1	1
	PHARMACOLOGY	32	0	0	32	73	1	1
	PHARMACOLOGY	45	0	0	45	74	1	1
25	THEOLOGY							
	THEOLOGY 1	0	0	0	0	30	1	1
	THEOLOGY 3	0	0	0	0	30	1	1
	THEOLOGY 4	0	0	0	0 } 90	30	1	1
	THEOLOGY	90	0	0	90	30	1	1
	THEOLOGY	0	0	0	0	30	1	1

DENTAL HYGIENIST, CONTINUED

CAREER NUMBER 9

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
27	FIRST AID							
	FIRST AID	0	0	0	0	30	1	1
	FIRST AID	30	0	0	30	74	1	1
36	DENTAL ASSISTING							
	DENTAL ASSISTING	0	0	0	0	30	1	1
	DENTAL ASSISTING AND TECHNIQUES	32	0	0	32	73	1	1
41	BIOCHEMISTRY							
	BIOCHEMISTRY	0	0	0	0	30	1	1
43	HISTOLOGY							
	HISTOLOGY	0	0	0	0	27	1	1
	HISTOLOGY GENERAL ORAL	32	48	0	80	73	1	1
	HISTOLOGY	15	30	0	45	74	1	1
53	PATHOLOGY							
	PATHOLOGY	0	0	0	0	27	1	1
	PATHOLOGY	0	0	0	0	30	1	1
	PATHOLOGY	32	48	0	80	73	1	1
	PATHOLOGY	30	0	0	30	74	1	1
78	RADIOGRAPHY, INTRA-ORAL							
	ROENTGENOGRAPHIC TECHNIQUE, ORAL	0	0	0	0	27	1	1
	RADIOLOGY	0	0	0	0	30	1	1
	RADIODONTICS	32	0	0	32	73	1	1
	ROENTGENOLOGY-ORAL	0	15	0	15	74	1	1
84	ANESTHESIA							
	ANESTHESIOLOGY	0	0	0	0	30	1	1
85	DENTAL ANATOMY							
	ANATOMY, DENTAL	0	0	0	0	27	1	1
	DENTAL ANATOMY	0	0	0	0	27	1	1
	DENTAL HYGIENISTS PERIODONTICS	0	0	0	0	27	1	1
	DENTAL RESEARCH	0	0	0	0	30	1	1
	MORPHOLOGY, TOOTH	0	0	0	0	30	1	1
	PERIODONTICS	0	0	0	0	30	1	1
	PERIODONTOLOGY	0	0	0	0	30	1	1
	ANATOMY, DENTAL	48	64	0	112	74	1	1

DENTAL HYGIENIST, CONTINUED

CAREER NUMBER 9

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
.86 CLINICAL PRACTICE, DENTAL							
CLINICAL PRACTICE	0	0	0	0	30	1	1
CLINICAL PRACTICE	0	0	0	0	30	1	1
CLINICAL PRACTICE	0	0	0	0	30	1	1
CLINICAL PRACTICE	0	160	0	160	73	1	1
CLINICAL PRACTICE	0	320	0	320 560	73	1	1
CLINICAL PRACTICE	0	80	0	80	73	1	1
.87 DENTAL HEALTH							
DENTAL HEALTH EDUCATION	0	0	0	0	27	1	1
DENTAL HYGIENE	0	0	0	0	27	1	1
DENTAL HYGIENE	0	0	0	0	27	1	1
DENTAL HYGIENE	0	0	0	0	27	1	1
DENTAL HEALTH EDUCATION	0	0	0	0	30	1	1
DENTAL HEALTH EDUCATION	0	0	0	0	30	1	1
DENTAL HEALTH EDUCATION	0	0	0	0	30	1	1
DENTAL HYGIENE	0	0	0	0	30	1	1
DENTAL HYGIENE	0	0	0	0	30	1	1
DENTAL HYGIENE	0	0	0	0	30	1	1
DENTAL HYGIENE	0	0	0	0	30	1	1
DENTAL HYGIENE	0	0	0	0	30	1	1
THERAPEUTICS, DENTAL	0	0	0	0	30	1	1
DENTAL HEALTH EDUCATION	48	0	0	48	73	1	1
DENTAL HEALTH EDUCATION	48	0	0	48 256	73	1	1
DENTAL HYGIENE	32	0	0	32	73	1	1
HYGIENE-PROPHYLAXIS-ORAL	32	96	0	128	73	1	1
DENTAL HEALTH EDUCATION	30	0	0	30	74	1	1
DENTAL HEALTH EDUCATION	45	0	0	45	74	1	1
DENTAL HYGIENE	15	210	0	225 640	74	1	1
DENTAL HYGIENE	30	0	175	205	74	1	1
DENTAL HYGIENE	0	135	0	135	74	1	1
.88 ORIENTATION, DENTAL							
ORIENTATION	30	15	0	45	74	1	1
89 DENTAL MATERIALS							
DENTAL MATERIALS	0	0	0	0	30	1	1
MATERIALS-DENTAL	15	30	0	45	74	1	1

DENTAL HYGIENIST, CONTINUED

CAREER NUMBER 9

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
124	GENERAL EDUCATION							
	ENGLISH	90	0	0	90	27	1	1
	PHYSICAL EDUCATION	0	0	0	0	27	1	1
	SPEECH	45	0	0	45	27	1	1
	ENGLISH	90	0	0	90	30	1	1
	HISTORY GOVERNMENT AMERICAN	90	0	0	90	30	1	1
	PHYSICAL EDUCATION	30	0	0	30	30	1	1
	SPEECH	30	0	0	30	30	1	1
	SPEECH	0	0	0	0	30	1	1
	ENGLISH	45	0	0	45	73	1	1
	ENGLISH	48	0	0	48	73	1	1
	ENGLISH	48	0	0	48	73	1	1
	SPEECH	48	0	0	48	73	1	1
	ENGLISH	45	0	0	45	74	1	1
	SPEECH	45	0	0	45	74	1	1
125	ELECTIVES							
	ELECTIVES	0	0	0	0	27	1	1
	ELECTIVES	0	0	0	0	27	1	1
	ELECTIVES	0	0	0	0	73	1	1

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DENTAL TECHNICIAN
                                                         CAREER NUMBER  10
                                          LECT    LAB    CLIN    TOTL    INST  CLAS  LEVL
     0  UNCOMMON
           CUSPAL COORDINATION               0      0       0     225      66     1     1
           DENTURES, FULL                    0      0       0     380      66     1     1
           DENTURES, REMOVABLE PARTIAL       0      0       0     380      66     1     1
           INLAYS-CROWN AND BRIDGEWORK       0      0       0     515      66     1     1

    .3  ANATOMY
           ANATOMY                           0      0       0     255 51 D 66     1     1
           MORPHOLOGY                        0      0       0     255      66     1     1

   .89  DENTAL MATERIALS
           GYPSUM PRODUCTS                   0      0       0     225      66     1     1
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PHYSICAL THERAPIST                                            CAREER NUMBER  11
                                                   LECT   LAB   CLIN   TOTL    INST  CLAS  LEVL
     0  UNCOMMON
           DERMATOLOGY                                3     0      0      3      34     1     1
           JOURNAL CLUB 1                            11     0      0     11}     75     1     1
           JOURNAL CLUB 2                            11     0      0     11} 44  75     1     1
           JOURNAL CLUB 3                            11     0      0     11}     75     1     1
           JOURNAL CLUB 4                            11     0      0     11}     75     1     1
           JOURNAL CLUB                              15     0      0     15      80     1     1
           SEMINAR                                   30     0      0     30      95     1     1

    .3  ANATOMY
           ANATOMY, HUMAN AND APPLIED                30   180      0    210       2     1     5
           ANATOMY                                   45    90      0    135      28     1     1
           ANATOMY 1                                 32     0      0     32}     66     1     1
           ANATOMY 2                                  0     6      0     96} 128 66     1     1
           ANATOMY-HUMAN DISSECTION                  81   166      0    247} 1316 71    1     1
           ANATOMY, FUNCTIONAL                       63     6   1000   1069}     71     1     1
           ANATOMY, FUNCTIONAL                       33    30      0     63}     75     1     1
           ANATOMY, GROSS 2                          44    73      0    117} 315 75     1     1
           ANATOMY, GROSS                            44    91      0    135}     75     1     1
           ANATOMY, APPLIED                          22    53      0     75} 225 80     1     1
           ANATOMY, HUMAN                            60    90      0    150}     80     1     1
           ANATOMY, GROSS                            30    90      0    120      95     1     1

    .6  HUMAN GROWTH AND DEVELOPMENT
           DEVELOPMENT, CHILD                        45     0      0     45      28     1     1
           GROWTH AND DEVELOPMENT, CHILD             15     0      0     15      30     1     1

   .10  PHYSIOLOGY
           EXPERIENCE, CLINICAL                       0     0    600    600} 750  2     1     5
           PHYSIOLOGY, GEN. AND APPLIED              60    90      0    150}      2     1     5
           PHYSIOLOGY                                45    90      0    135} 165 28     1     1
           PHYSIOLOGY, APPLIED                       30     0      0     30}     28     1     1
           PHYSIOLOGY                                60    90      0    150} 195 30     1     1
           PHYSIOLOGY, APPLIED                       22    23      0     45}     30     1     1
           PHYSIOLOGY 1                              20    23      0     43} 97  34     1     1
           PHYSIOLOGY 2                              25    29      0     54}     34     1     1
           PHYSIOLOGY                                32     0      0     32      66     1     1
           PHYSIOLOGY                                64    48      0    112      71     1     1
           PHYSIOLOGY                                 0     0      0     90      72     1     1
           PHYSIOLOGY                                55    88      0    143      75     1     1
           PHYSIOLOGY 1                              30     0      0     30} 60  80     1     1
           PHYSIOLOGY 2                              30     0      0     30}     80     1     1
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PHYSICAL THERAPIST, CONTINUED

CAREER NUMBER 11

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
✓10	PHYSIOLOGY, CONTINUED							
	PHYSIOLOGY	30	90	0	120 }225	95	1	1
	PHYSIOLOGY	45	60	0	105 }	95	1	1
✓13	ETHICS, PROFESSIONAL							
	ETHICS AND ADMINISTRATION	15	0	0	15	30	1	1
	ETHICS AND ADMINISTRATION	8	0	0	8	66	1	1
	RELATIONSHIPS, PROFESSIONAL, ETHICS	7	71	0	78	71	1	1
	ETHICS AND ADMINISTRATION	15	0	0	15	72	1	1
	RELATIONSHIPS, PROF. AND COMMUNITY	22	0	0	22	75	1	1
	ETHICS, ORG. + ADMN.	15	0	0	15	95	1	1
✓15	MATHEMATICS							
	MATHEMATICS	0	0	0	60	72	1	1
✓16	PSYCHOLOGY, GENERAL							
	PSYCHOLOGY	16	0	0	16	66	1	1
	PSYCHOLOGY	30	0	0	30	80	1	1
	PSYCHOLOGY	30	0	0	30 }75	95	1	1
	PSYCHOLOGY	45	0	0	45 }	95	1	1
✓17	HEALTH, PERSONAL AND COMMUNITY							
	HEALTH, PERSONAL AND COMMUNITY	15	0	0	15	30	1	1
	HEALTH, PUBLIC	4	0	0	4	34	1	1
	HEALTH, PUBLIC-INTRO. TO	12	0	0	12	75	1	1
✓20	MICROBIOLOGY							
	MICROBIOLOGY	6	0	0	6	34	1	1
✓21	PEDIATRICS							
	PEDIATRICS	8	0	0	8	66	1	1
✓22	NURSING, PSYCHIATRIC							
	PSYCHOLOGY	15	0	0	15	2	1	5
	PSYCHOPATHOLOGY	30	0	0	30	28	1	1
	PSYCHOLOGY OF PHYSICALLY DISABLED	30	0	0	30	30	1	1
	PSYCHIATRY	12	0	0	12	34	1	1
	PSYCHOLOGY OF HANDICAPPED	16	0	0	16	71	1	1
	DISABILITY FACTORS-SOCIAL AND EMOTIONAL	30	0	0	30	72	1	1
	PSYCHIATRY.	45	0	0	45	80	1	1

CAREER NUMBER 11

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
.25	THEOLOGY							
	PHYS. THERAPY RELIGION	45	0	0	45	30	1	1
	RELIGION-SELECTED 1	30	0	0	30 } 135	30	1	1
	RELIGION 2	30	0	0	30	30	1	1
	RELIGION 3	30	0	0	30	30	1	1
.29	PHYSICS							
	PHYSICS 1	30	45	0	75 } 150	30	1	1
	PHYSICS 2	30	45	0	75	30	1	1
	PHYSICS	100	93	0	193	34	1	1
	BIOPHYSICS	48	0	0	48	66	1	1
	PHYSICS-PHYSICAL THERAPY	60	0	0	60	80	1	1
	PHYSICS	30	0	0	30	95	1	1
.43	HISTOLOGY							
	HISTOLOGY	18	30	0	48	30	1	1
	HISTOLOGY	24	44	0	68	75	1	1
.53	PATHOLOGY							
	PATHOLOGY	30	0	0	30	2	1	5
	PATHOLOGY	30	0	0	30	28	1	1
	PATHOLOGY	45	0	0	45	30	1	1
	PATHOLOGY	29	0	0	29	34	1	1
	PATHOLOGY	32	0	0	32	66	1	1
	PATHOLOGY-BASIC PRIN. OF DISEASE-INJURY	29	0	0	29	71	1	1
	PATHOLOGY, GENERAL	30	0	0	30	72	1	1
	PATHOLOGY 1	44	11	0	55 } 88	75	1	1
	PATHOLOGY 2	22	11	0	33	75	1	1
	HISTOLOGY AND PATHOLOGY	30	0	0	30	80	1	1
	PATHOLOGY	30	0	0	30	95	1	1
.78	RADIOGRAPHY, INTRA-ORAL							
	X-RAY	4	0	0	4	34	1	1
.90	PHYSICAL AGENTS, PHYSICAL THERAPY							
	AGENTS, PHYSICAL	30	135	0	165	2	1	5
	AGENTS, PHYSICAL 1	15	45	0	60 } 165	28	1	1
	AGENTS, PHYSICAL 2	15	90	0	105	28	1	1
	MASSAGE 1	8	23	0	31	30	1	1
	MASSAGE 2	6	30	0	36 } 142	30	1	1
	THERAPY, PHYSICAL-HYDROTHERAPY	30	45	0	75	30	1	1
	ELECTROTHERAPY-LOW FREQUENCY	40	39	0	79 }	34	1	1

PHYSICAL THERAPIST, CONTINUED

CAREER NUMBER 11

	LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
90 PHYSICAL AGENTS, PHYSICAL THERAPY, CONTINUED								
HYDROTHERAPY	15	30	0	45		34	1	1
MASSAGE	19	20	0	39	289	34	1	1
THERMOTHERAPY 1	23	23	0	46		34	1	1
THERMOTHERAPY 2	40	40	0	80		34	1	1
HYDROTHERAPY	8	24	0	32		66	1	1
MASSAGE	16	48	0	64	176	66	1	1
THERAPY, PHYS.-ELECTROTHERAPY + RADIATI	32	48	0	80		66	1	1
ELECTROTHERAPY	41	32	1000	1073		71	1	1
MASSAGE, HYDROTHERAPY AND BANDAGING	37	59	0	96	1215	71	1	1
THERMOTHERAPY AND OCTINOTHERAPY	23	23	0	46		71	1	1
ELECTROTHERAPY	22	23	0	45		72	1	1
AGENTS, PHYSICAL-ELECTROTHERAPY	22	44	0	66		75	1	1
AGENTS, PHYSICAL-MASSAGE	11	44	0	55	187	75	1	1
AGENTS, PHYSICAL-THERMOTHERAPY	22	44	0	66		75	1	1
MASSAGE	7	23	0	30		80	1	1
AGENTS, PHYSICAL	30	60	0	90		95	1	1
AGENTS, PHYSICAL	30	60	0	90	288	95	1	1
AGENTS, PHYSICAL	36	72	0	108		95	1	1
✓91 NEUROLOGY								
NEUROANATOMY, APPLIED	45	0	0	45		28	1	1
NEUROANATOMY	22	23	0	45		30	1	1
NEUROANATOMY	60	15	1000	1075		34	1	1
NEUROLOGY	20	0	0	20	1108	34	1	1
NEUROSURGERY	3	3	0	3		34	1	1
NEUROLOGY	8	15	0	23		66	1	1
NEUROANATOMY	16	20	0	36		75	1	1
NEUROANATOMY	22	23	0	45	60	80	1	1
NEUROLOGY	15	0	0	15		80	1	1
NEUROLOGY	45	0	0	45		95	1	1
✓92 CLINICAL ASSIGNMENT, PHYSICAL THERAPY								
EDUCATION, CLINICAL 1	0	0	75	75	675	28	1	1
EDUCATION, CLINICAL 2	0	0	600	600		28	1	1
INTERNSHIP	0	0	450	450	450	30	1	1
OBSERVATION, CLINICAL	0	0	0	0		30	1	1
CLINICAL ASSIGNMENT 1	0	0	6	6	486	34	1	1
CLINICAL ASSIGNMENT 2	0	0	480	480		34	1	1
PRACTICE, CLINICAL	0	0	640	640		66	1	5
EXPERIENCE, CLINICAL	0	0	718	718		71	1	1
EXPERIENCE, CLINICAL-A	0	0	180	180	450	72	1	1
EXPERIENCE, CLINICAL-B	0	0	270	270		72	1	1
OBSERVATION, CLINICAL 2	0	0	60	60		75	1	1

		LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
92	CLINICAL ASSIGNMENT, PHYSICAL THERAPY, CONTINUED								
	OBSERVATION, CLINICAL 3	0	0	60	60		75	1	1
	OBSERVATION, CLINICAL	0	0	60	60	385	75	1	1
	TRAINING, CLINICAL	0	0	165	165		75	1	1
	EXPERIENCE, CLINICAL 1	0	0	0	0		80	1	1
	EXPERIENCE, CLINICAL 2	0	0	45	45	450	80	1	1
	EXPERIENCE, CLINICAL 3	0	0	405	405		80	1	1
	CLINICAL ASSIGNMENT	15	0	0	15	390	95	1	1
	CLINICAL ASSIGNMENT	0	0	375	375		95	1	1
93	ORG. AND ADMIN., PHYSICAL THERAPY								
	HISTORY-ADMN. AND PROF. RELATIONSHIPS	30	0	0	30		2	1	5
	HISTORY-ADMN. AND PROF. RELATIONSHIPS	30	0	0	30		28	1	1
	PHYS. THERAPY-HISTORY AND TRENDS	15	0	0	15		30	1	1
	ADMINISTRATION, PROF. AND LITERATURE	38	0	0	38		34	1	1
	AGENCIES, PROF. AND SOCIAL-CORRELATION	16	0	0	16		71	1	1
	PHYS. THERAPY-ADMN. AND CLIN. OBSERV.	16	0	0	16		71	1	1
	PHYS. THERAPY-CURRENT LITERATURE	16	0	0	16	107	71	1	1
	PHYS. THERAPY NURSING PROCEDURES + REL	22	4	0	26		71	1	1
	THERAPY, PHYSICAL, FOUNDATIONS OF	21	12	0	33		71	1	1
	ORGANIZATION AND ADMINISTRATION	22	0	0	22		75	1	1
	ADMINISTRATION, PHYS. THERAPY	15	0	0	15		80	1	1
	ORGANIZATION-PHYSICAL THERAPY	15	0	0	15		80	1	1
94	ORIENTATION, PHYSICAL THERAPY								
	PATIENT CARE, INTRO. TO	30	18	0	48		34	1	1
	ORIENTATION	21	12	0	33		71	1	1
	CARE, PATIENT-INTRO. TO	12	22	0	34		75	1	1
	CARE, PATIENT-INTRO TO	15	0	0	15	30	80	1	1
	ORIENTATION PROFESSIONAL	15	0	0	15		80	1	1
95	PHYSICAL THERAPY								
	MEDICINE, CLINICAL	90	0	0	90		2	1	5
	LECTURES, CLINICAL 1	30	0	0	30		28	1	1
	LECTURES, CLINICAL 2	45	0	0	45	120	28	1	1
	LECTURES, CLINICAL 3	45	0	0	45		28	1	1
	CLINICAL MEDICINE	30	45	0	75		30	1	1
	CLINICAL MEDICINE	45	90	0	135		30	1	1
	INJURIES, INDUSTRIAL 2	15	0	0	15	285	30	1	1
	INJURIES, INDUSTRIAL	15	0	0	15		30	1	1
	THERAPY PHYS.-SPECIAL TOPIC	22	23	0	45		30	1	1
	MEDICINE INTRO. TO	36	0	0	36		34	1	1
	MEDICAL PROCEDURES, BASIC	16	32	0	48		66	1	1
	MEDICINE 1	16	0	0	16		66	1	1

PHYSICAL THERAPIST, CONTINUED — CAREER NUMBER 11

	LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
95 PHYSICAL THERAPY, CONTINUED								
MEDICINE 2	16	30	0	46		66	1	1
SURGICAL SPECIALTIES 1	16	30	0	46	202	66	1	1
SURGICAL SPECIALTIES 2	16	30	0	46		66	1	1
PHYS. THERAPY-MED. AND SURG. CONDITIONS	85	0	0	85	123	71	1	1
THERAPY MED. AND SURG. CONDITIONS	38	0	0	38		71	1	1
MEDICINE, CLINICAL ORIENTATION-A	30	45	0	75		72	1	1
MEDICINE, CLINICAL ORIENTATION-B	22	23	0	45	160	72	1	1
MEDICINE, PHYSICAL APPLIED-A	30	0	0	30		72	1	1
MEDICINE, PHYSICAL APPLIED-B	30	0	0	30		72	1	1
CLINICS, ELEMENTARY	0	30	0	30		75	1	1
MED. SCIENCES 1, INTRO. TO	20	0	0	20	194	75	1	1
MED. SCIENCES 2-INTRO. TO	33	0	0	33		75	1	1
MED. SCIENCES 3-INTRO. TO	45	0	0	45		75	1	1
MED. SCIENCES 4, INTRO. TO	44	0	0	44		75	1	1
PROBLEMS CLINICAL-ADVANCED	22	0	0	22		75	1	1
MEDICINE GENERAL	15	0	0	15	30	80	1	1
SURGERY GENERAL	15	0	0	15		80	1	1
LECTURES, CLINICAL	90	0	0	90		95	1	1
.96 THERAPEUTIC EXERCISE								
EXERCISE, THERAPEUTIC, AND ASSISTIVE DEV.	30	180	1000	1210		2	1	5
EXERCISE, THERAPEUTIC 1	15	45	0	60		28	1	1
EXERCISE, THERAPEUTIC 2	15	90	0	105	330	28	1	1
EXERCISE, THERAPEUTIC 3	15	90	0	105		28	1	1
THERAPY, PHYSICAL-INTRO. TO	30	0	0	30		28	1	1
THERAPY, PHYSICAL APPLIED	30	0	0	30		28	1	1
EXERCISE, THERAPEUTIC-INTRO. TO	15	0	0	15		30	1	1
EXERCISE, THERAPEUTIC 1	45	45	0	90		30	1	1
EXERCISE, THERAPEUTIC 2	30	90	0	120	270	30	1	1
THERAPY, PHYSICAL-APPLIED 1	15	0	0	15		30	1	1
THERAPY, PHYSICAL-APPLIED 2	15	0	0	15		30	1	1
THERAPY, PHYSICAL-SEMINAR	15	0	0	15		30	1	1
EXERCISE, THERAPEUTIC	97	95	0	192		34	1	1
ORTHOPEDICS	36	0	0	36		34	1	1
PHYSICAL MEDICINE AND REHABILITATION	15	14	0	29	382	34	1	1
REHABILITATION TECHNIQUES	40	41	0	81		34	1	1
THERAPEUTIC ACTIVITIES, INTRO. TO	22	22	0	44		34	1	1
EXERCISE, THERAPEUTIC	80	96	0	176	208	66	1	1
THERAPY, PHYSICAL APPLIED	32	0	0	32		66	1	1
EXERCISE, PHYSIOLOGY OF	9	12	0	21		71	1	1
EXERCISE, THERAPEUTIC	84	80	1000	1164	1247	71	1	1
PHYS. THERAPY-REHABILITATION	33	29	0	62		71	1	1
EXERCISE, THERAPEUTIC-A	45	45	0	90		72	1	1

		LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
96	THERAPEUTIC EXERCISE, CONTINUED								
	EXERCISE, THERAPEUTIC-B	30	45	0	75	240	72	1	1
	THEORY AND TECHNIQUE	30	45	0	75		72	1	1
	EXERCISE, THERAPEUTIC 1	22	60	0	82		75	1	1
	EXERCISE, THERAPEUTIC 2	22	44	0	66	236	75	1	1
	EXERCISE, THERAPEUTIC 3	22	44	0	66		75	1	1
	THERAPY, PHYSICAL-INTRO. TO	22	0	0	22		75	1	1
	DEVICES, ASSISTIVE	15	0	1000	1015		80	1	1
	EXERCISE, PHYSIOLOGY OF	7	23	0	30		80	1	1
	EXERCISE, THERAPEUTIC	60	45	0	105	1330	80	1	1
	ORTHOPEDIES	30	0	0	30		80	1	1
	PHYS. THERAPY, APPLICATION OF	15	45	0	60		80	1	1
	PROCEDURES, PHYS. THERAPY	45	45	0	90		80	1	1
	DEVICES, ASSISTIVE	30	0	0	30		95	1	1
101	KINESIOLOGY								
	KINESIOLOGY	30	45	0	75		28	1	1
	ANATOMY AND KINESIOLOGY	75	135	0	210		30	1	1
	ANATOMY AND KINESIOLOGY	200	396	0	596		34	1	1
	KINESIOLOGY	32	48	0	80		66	1	1
	KINESIOLOGY	25	5	0	30		95	1	1
105	TESTS AND MEASUREMENTS, PHYSICAL								
	TESTS AND MEASUREMENTS, PHYSICAL	15	90	0	105		2	1	5
	TESTS AND MEASUREMENTS, PHYSICAL	30	45	0	75		28	1	1
	MUSCLE TESTING AND TRAINING	42	42	0	84		34	1	1
	MUSCLE TESTING	22	23	0	45		72	1	1
	TESTS AND MEASUREMENTS 1, PHYSICAL	11	22	0	33	121	75	1	1
	TESTS AND MEASUREMENTS 2, PHYSICAL	22	66	0	88		75	1	1
124	GENERAL EDUCATION								
	SPEECH	2	0	0	2		34	1	1
	COMPOSITION, ENGLISH	0	0	0	45		72	1	1
	HUMANITIES	0	0	0	180		72	1	1
	LANGUAGE, FOREIGN	0	0	0	240	1090	72	1	1
	SCIENCES, NATURAL	0	0	0	360		72	1	1
	SCIENCES, SOCIAL	0	0	0	265		72	1	1
	UNIV. COURSES, GENERAL REQUIRED	0	0	0	900		80	1	1
	SPEECH	30	0	0	30		95	1	1

PHYSICAL THERAPIST, CONTINUED

CAREER NUMBER 11

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
125 ELECTIVES							
ELECTIVES [1]	75	0	0	75	95	1	1
ELECTIVES [2]	90	0	0	90	95	1	1
ELECTIVES [3]	90	0	0	90	95	1	1

PHYSICAL THERAPY ASSISTANT

CAREER NUMBER 12

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
0	UNCOMMON							
	ORIENTATION TO AFFILIATING HOSPITALS	45	0	0	45	54	1	5
3	ANATOMY							
	ANATOMY, FUNCTIONAL	30	45	0	75	54	1	5
4	ANATOMY AND PHYSIOLOGY							
	ANATOMY + PHYSIOLOGY	30	45	0	75	54	1	5
13	ETHICS, PROFESSIONAL							
	ETHICS, ORG, ADMN.	30	0	0	30	54	1	5
16	PSYCHOLOGY, GENERAL							
	PSYCHOLOGY	45	0	0	45	54	1	5
27	FIRST AID							
	FIRST AID	22	23	0	45	54	1	5
62	OFFICE PRACTICE							
	OFFICE PROCEDURES	45	0	0	45	54	1	5
64	TERMINOLOGY, MEDICAL							
	TERMINOLOGY	30	0	0	30	54	1	5
90	PHYSICAL AGENTS, PHYSICAL THERAPY							
	AGENTS, PHYSICAL	30	45	0	75 150	54	1	5
	AGENTS, PHYSICAL	30	45	0	75	54	1	5
92	CLINICAL ASSIGNMENT, PHYSICAL THERAPY							
	CLINICAL ASSIGNMENT	0	0	270	270	54	1	5
94	ORIENTATION, PHYSICAL THERAPY							
	PATIENT, PREPARATION OF	30	45	0	75	54	1	5
95	PHYSICAL THERAPY							
	ACTIVITIES OF DAILY LIVING	30	45	0	75	54	1	5
	ESCORT SERVICE	15	45	0	60 195	54	1	5
	MEDICAL ASSISTING SKILLS	15	45	0	60	54	1	5

PHYSICAL THERAPY ASSISTANT, CONTINUED

CAREER NUMBER 12

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
96	THERAPEUTIC EXERCISE							
	CONDITIONS TREATED	45	0	0	45 }120	54	1	5
	EXERCISE, THERAPEUTIC	30	45	0	75	54	1	5
124	GENERAL EDUCATION							
	COMMUNICATION SKILLS	45	0	0	45	54	1	5

OCCUPATIONAL THERAPIST

CAREER NUMBER 13

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
0	UNCOMMON							
	SEMINAR	15	0	75	90 }	63	1	1
	STUDY, DIRECTED	30	45	0	75 }	63	1	1
	SEMINAR	30	0	0	30	68	1	1
✓3	ANATOMY							
	ANATOMY	30	180	0	210	2	1	1
	ANATOMY, HUMAN	45	45	0	90	51	1	1
	ANATOMY	30	180	0	210	68	1	1
	ANATOMY, HUMAN	60	135	0	195	70	1	1
✓4	ANATOMY AND PHYSIOLOGY							
	ANATOMY + PHYSIOLOGY [1]	45	90	0	135 } 300	63	1	1
	ANATOMY + PHYSIOLOGY [2]	30	135	0	165 }	63	1	1
	ANATOMY + PHYSIOLOGY, HUMAN	45	90	0	135	69	1	1
9	CLINICAL PRACTICE, NURSING							
	HANDCRAFTS-JEWELRY	0	2	3000	3 ✓	7	1	1
10	PHYSIOLOGY							
	PHYSIOLOGY	45	90	0	135 } 150	2	1	1
	READJUSTMENT, INDIVIDUAL	15	0	0	15 }	2	1	1
	PHYSIOLOGY	60	90	0	150	30	1	1
	PHYSIOLOGY	30	45	0	75	51	1	1
	PHYSIOLOGY	45	45	0	90	69	1	1
	PHYSIOLOGY	30	45	0	75	70	1	1
16	PSYCHOLOGY, GENERAL							
	EDUCATION, SPECIAL AND ADULT	75	225	0	300 } 345	2	1	1
	PSYCHOLOGY	45	0	0	45 }	2	1	1
	PSYCHOLOGY	30	0	0	30 } 75	51	1	1
	PSYCHOLOGY	45	0	0	45 }	51	1	1
	PSYCHOLOGY	15	0	0	15 } 30	63	1	1
	PSYCHOLOGY	15	0	0	15 }	63	1	1
	PSYCHOLOGY	45	0	0	45	68	1	1
19	SOCIOLOGY							
	AGENCIES, SOCIAL AND EDUCATION	15	0	0	15 } 45	2	1	1
	SOCIOLOGY	30	0	0	30 }	2	1	1

OCCUPATIONAL THERAPIST , CONTINUED

CAREER NUMBER 13

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
20	MICROBIOLOGY							
	MICROBIOLOGY	15	0	0	15	69	1	1
21	PEDIATRICS							
	PEDIATRICS	22	23	0	45	2	1	1
	PEDIATRICS, OCCUP. THERAPY IN	30	45	0	75	30	1	1
	PEDIATRICS, THEORY-OCCUP. THERAPY	22	23	0	45	70	1	1
22	NURSING, PSYCHIATRIC							
	PSYCHIATRY	22	23	0	45	2	1	1
	PSYCHIATRY, OCCUP. THERAPY	15	45	0	60	30	1	1
	OCCUPATIONAL THERAPY [PREVENTIVE	30	45	0	75	51	1	1
	PSYCHIATRY	45	0	0	45 165	51	1	1
	PSYCHIATRY	45	0	0	45	51	1	1
	CLERKSHIP, PSYCHIATRIC [AND SEMINAR]	15	0	0	15	63	1	1
	PSYCHIATRY	30	0	0	30 90	63	1	1
	PSYCHIATRY	45	0	0	45	63	1	1
	PSYCHIATRY	30	0	110	140	68	1	1
25	THEOLOGY							
	RELIGION 1	30	0	0	30	30	1	1
	RELIGION 2	30	0	0	30 90	30	1	1
	RELIGION 3	30	0	0	30	30	1	1
53	PATHOLOGY							
	PATHOLOGY	15	0	0	15	69	1	1
64	TERMINOLOGY, MEDICAL							
	MEDICAL TERMINOLOGY	45	0	0	45	69	1	1
90	PHYSICAL AGENTS, PHYSICAL THERAPY							
	DEVICES, ASSISTIVE AND ORTHOTICS	15	45	0	60 120	70	1	1
	MEDIA, ADAPTATION OF	15	45	0	60	70	1	1
91	NEUROLOGY							
	NEUROANATOMY	45	0	0	45	2	1	1
	NEUROLOGY	7	23	1000	1030	2	1	1
	NEUROANATOMY	22	23	0	45	30	1	1
	NEUROLOGY	30	45	0	75	51	1	1
	NEUROLOGY	15	45	0	60 105	63	1	1
	NEUROLOGY	45	0	0	45	63	1	1
	NEUROLOGY	15	0	0	15	70	1	1

OCCUPATIONAL THERAPIST, CONTINUED

CAREER NUMBER 13

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
. 96	THERAPEUTIC EXERCISE							
	ORTHOPEDICS	37	23	0	60	2	1	1
	REHABILITATION AND COMMUNITY SERVICES	15	0	0	15	30	1	1
	THERAPEUTIC TECHNIQUES PRACTICUM 1	15	90	0	105 225	30	1	1
	THERAPEUTIC TECHNIQUES PRACTICUM	15	90	0	105	30	1	1
	REHABILITATION	30	45	0	75	51	1	1
	ORTHOPEDICS	15	0	0	15	63	1	1
	REHABILITATION	30	90	0	120	69	1	1
	EXERCISE, THERAPEUTIC	7	23	0	30	70	1	1
	REHABILITATION	15	45	0	60	70	1	1
97	ORIENTATION, OCCUPATIONAL THERAPY							
	ORIENTATION	30	0	0	30 60	68	1	1
	ORIENTATION	30	0	0	30	68	1	1
	ORIENTATION	30	0	0	30	69	1	1
	ADJUSTMENTS, PROFESSIONAL	15	0	0	15 45	70	1	1
	ORIENTATION, OCCUP. THERAPY	30	0	0	30	70	1	1
98	HANDCRAFTS							
	ARTS-FINE AND APPLIED	75	225	0	300	2	1	1
	RECREATION	30	135	0	165	2	1	1
	ARTS, INDUSTRIAL AND SKILLS 1	15	90	0	105	30	1	1
	ARTS, INDUSTRIAL AND SKILLS 2	15	90	0	105	30	1	1
	CERAMICS	15	45	0	60	30	1	1
	CRAFTS, GENERAL	15	90	0	105	30	1	1
	DESIGN AND ART	15	45	0	60	30	1	1
	WEAVING	15	45	0	60	30	1	1
	HANDCRAFTS	15	45	0	60	51	1	1
	HANDCRAFTS	15	45	0	60	51	1	1
	HANDCRAFTS	15	45	0	60	51	1	1
	HANDCRAFTS	15	90	0	105	51	1	1
	HANDICRAFTS	15	45	0	60	51	1	1
	HANDCRAFTS	15	45	0	60	63	1	1
	HANDCRAFTS	15	45	0	60	63	1	1
	HANDCRAFTS	15	45	0	60	63	1	1
	HANDCRAFTS	15	45	0	60	63	1	1
	HANDCRAFTS	15	45	0	60	63	1	1
	HANDCRAFTS	15	45	0	60	63	1	1
	HANDCRAFTS	15	45	0	60	63	1	1
	HANDCRAFTS	15	45	0	60	63	1	1
	HANDCRAFTS	30	45	0	75	63	1	1
	HANDCRAFTS	30	45	0	75	63	1	1

CAREER NUMBER 13

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
98	HANDCRAFTS, CONTINUED							
	HANDCRAFTS	30	45	0	75	63	1	1
	HANDCRAFTS	30	45	0	75	63	1	1
	HANDCRAFTS	30	45	0	75	63	1	1
	HANDCRAFTS	7	23	0	30	63	1	1
	HANDCRAFTS	7	23	0	30	63	1	1
	HANDCRAFTS	7	23	0	30	63	1	1
	HANDCRAFTS	7	23	0	30	63	1	1
	ART, COMMERCIAL-GRAPHIC PROCESSES	15	0	0	15	70	1	1
	CERAMICS 1	15	45	0	60	70	1	1
	DESIGN 1	15	45	0	60	70	1	1
	DESIGN 2	15	45	0	60	70	1	1
	HANDCRAFTS-MINOR CRAFTS	22	53	0	75	70	1	1
	HANDCRAFTS-SCREEN PRINTING	15	45	0	60	70	1	1
	HANDCRAFTS-WEAVING	15	45	0	60	70	1	1
	HANDCRAFTS-WOODWORK	15	45	0	60	70	1	1
99	OCUPATIONAL THERAPY							
	MEDICINE, GENERAL AND SURGERY	45	45	0	90	2	1	1
	TUBERCULOSIS	22	23	0	45	2	1	1
	LECTURES, MEDICAL	15	0	0	15	30	1	1
	MEDICINE, CLINICAL 1	75	0	0	75	30	1	1
	MEDICINE, CLINICAL 2	45	0	0	45	30	1	1
	CLINICAL ASSIGNMENT	0	90	0	90	51	1	1
	LECTURES, CLINICAL	30	0	0	30	51	1	1
	LECTURES, CLINICAL	30	0	0	30	51	1	1
	LECTURES, CLINICAL	30	0	0	30	51	1	1
	LECTURES, CLINICAL	45	0	0	45	63	1	1
	LECTURES, CLINICAL	30	0	75	105	68	1	1
	THEORY, ADVANCED	30	0	0	30	68	1	1
	LECTURES, CLINICAL	195	0	0	195	69	1	1
	LECTURES, CLINICAL	75	0	0	75	70	1	1
100	PRINCIPLES AND PRACTICES, OCCUP. THERAPY							
	PRINCIPLES + PRACTICE	15	90	0	105 180	51	1	1
	PRINCIPLES + PRACTICE	30	45	0	75	51	1	1
	PRINCIPLES + PRACTICE	15	45	0	60	63	1	1
	PRINCIPLES + PRACTICE	15	0	300	315	68	1	1
	PRINCIPLES + PRACTICE	30	90	0	120	68	1	1
	PRINCIPLES + PRACTICE	30	0	360	390 1575	68	1	1
	PRINCIPLES + PRACTICE	30	90	0	120	68	1	1
	PRINCIPLES + PRACTICE	45	0	0	45	68	1	1
	PRINCIPLES + PRACTICE	45	0	0	45	68	1	1
	PRINCIPLES + PRACTICE	0	270	0	270	68	1	1

OCCUPATIONAL THERAPIST , CONTINUED

CAREER NUMBER 13

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
100	PRINCIPLES AND PRACTICES, OCCUP. THERAPY, CONTINUED							
	PRINCIPLES + PRACTICE	0	270	0	270	68	1	1
	PRINCIPLES + PRACTICE	15	45	0	60	69	1	1
	PRINCIPLES + PRACTICE	15	135	0	150	69	1	1
	PRINCIPLES + PRACTICE	45	180	0	225 1080	69	1	1
	PRINCIPLES + PRACTICE	60	90	0	150	69	1	1
	PRINCIPLES + PRATICE	45	135	0	180	69	1	1
	PRINCIPLES + PRATICE	90	225	0	315	69	1	1
	OCCUP. THERAPY 3	15	45	0	60	70	1	1
	OCCUP. THERAPY 4	15	45	0	60 255	70	1	1
	OCCUP. THERAPY 5	15	45	0	60	70	1	1
	OCCUP. THERAPY 6	30	45	0	75	70	1	1
101	KINESIOLOGY							
	KINESIOLOGY	30	0	0	30	2	1	1
	ANATOMY AND KINESIOLOGY	75	135	0	210	30	1	1
	KINESIOLOGY	30	45	0	75	51	1	1
	KINESIOLOGY	45	45	0	90	63	1	1
	KINESIOLOGY	45	0	0	45	68	1	1
	KINESIOLOGY	30	45	0	75	69	1	1
	KINESIOLOGY	15	23	0	38 113	70	1	1
	KINESIOLOGY, APPLIED	30	45	0	75	70	1	1
102	ORG. AND ADMIN., OCCUP. THERAPY							
	ADMINISTRATION OF OCCUP. THERAPY	15	0	0	15	2	1	1
	DISABILITIES PHYSICAL	60	0	0	60	51	1	1
	ORGANIZATION + ADMIN.	30	0	0	30	69	1	1
	ORGANIZATION AND ADMINISTRATION	15	0	0	15	70	1	1
103	PHYSICAL DISABILITIES							
	DISABILITIES, PHYSICAL IN OCCUP. THERAP	15	45	0	60	30	1	1
	DISABILITY, PHYSICAL OCCUP. THERAPY	15	45	0	60	30	1	1
	DISABILITIES, PHYSICAL	15	0	0	15	63	1	1
	DISABILITIES, PHYSICAL	30	0	0	30	63	1	1
	DISABILITIES, PHYSICAL	45	90	0	135	63	1	1
	DISABILITIES, PHYSICAL	45	90	0	135	63	1	1
104	CLINICAL ASSIGNMENT, OCCUP. THERAPY							
	TRAINING, CLINICAL	0	0	600	600	2	1	1
	INTERNSHIP, OCCUP. THERAPY	0	0	3510	3510	30	1	1
	PRACTICUM, OCCUP. THERAPY 1	30	0	0	30 3600	30	1	1
	PRACTICUM, OCCUP. THERAPY 2	15	45	0	60	30	1	1
	CLINICAL ASSIGNMENT	0	0	605	605	51	1	1
	CLINICAL ASSIGNMENT	0	0	675	675	63	1	1

OCCUPATIONAL THERAPIST, CONTINUED

CAREER NUMBER 13

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
104	CLINICAL ASSIGNMENT, OCCUP. THERAPY, CONTINUED							
	CLINICAL ASSIGNMENT	0	0	480	480	68	1	1
	CLINICAL ASSIGNMENT	0	0	0	0	69	1	1
	HOSPITAL TRAINING 3	0	0	450	450	70	1	1
	HOSPITAL TRAINING 4	0	0	300	300 1050	70	1	1
	HOSP. TRAINING 2	0	0	300	300	70	1	1
105	TESTS AND MEASUREMENTS, PHYSICAL							
	RESEARCH METHODOLOGY [INTRODUCTION]	30	0	0	30	51	1	1
	MUSCLE TESTING	3	12	0	15	70	1	1
124	GENERAL EDUCATION							
	LIBERAL ARTS COURSES PREREQUISITE	0	0	0	930	30	1	1
	COMMUNICATION SERVICES	60	0	0	60	69	1	1
125	ELECTIVES							
	ELECTIVES	45	0	0	45	30	1	1

OCCUPATIONAL THERAPY ASSISTANT

CAREER NUMBER 14

		LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
0	UNCOMMON								
	SERVICES HOSPITAL, ORIENTATION	21	0	0	21		22	1	3
.18	HUMAN RELATIONSHIPS								
	DYNAMICS-GROUP	8	0	0	8		22	1	3
.22	NURSING, PSYCHIATRIC								
	PERSONALITY DEVELOPMENT	20	0	0	20	44	22	1	3
	PERSONALITY DEVELOPMENT	24	0	0	24		22	1	3
.64	TERMINOLOGY, MEDICAL								
	TERMINOLOGY AND MEDICAL	2	0	0	2		22	1	3
.96	THERAPEUTIC EXERCISE								
	SKILLS, SPECIALTY	125	0	0	125	223	22	1	3
	SKILLS, SPECIALTY	95	0	0	95		22	1	3
	TREATMENT	3	0	0	3		22	1	3
.97	ORIENTATION, OCCUPATIONAL THERAPY								
	ORIENTATION, INSTITUTIONAL ACTIVITY	36	0	0	36	40	22	1	3
	THERAPY OCCUP. HISTORY AND PHILOSOPHY	2	0	0	2		22	1	3
	TRAINING PROGRAM INTRO.	1	0	0	1		22	1	3
	TRAINING PROGRAM INTRO.	1	0	0	1		22	1	3
100	PRINCIPLES AND PRACTICES, OCCUP. THERAPY								
	THERAPY OCCUPATIONAL GENERAL PRACTICE	75	0	0	75	157	22	1	3
	THERAPY OCCUPATIONAL MENTALLY ILL	78	0	0	78		22	1	3
	THERAPY OCCUPATIONAL ROLE AND FUNCTION	2	0	0	2		22	1	3
	THERAPY OCCUPATIONAL ROLE AND FUNCTION	2	0	0	2		22	1	3
104	CLINICAL ASSIGNMENT, OCCUP. THERAPY								
	CLINICAL CONDITIONS	55	0	0	55	345	22	1	3
	CLINICAL CONDITIONS	3	0	0	3		22	1	3
	CLINICAL PRACTICE	0	0	145	145		22	1	3
	CLINICAL PRACTICE	0	0	145	145		22	1	3
105	TESTS AND MEASUREMENTS, PHYSICAL								
	EVALUATION	7	0	0	7	16	22	1	3
	EVALUATION	9	0	0	9		22	1	3

INHALATION THERAPIST

CAREER NUMBER 15

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
0	UNCOMMON							
	REPORTS AND DISCUSSION-JOURNAL CLUB	88	0	0	88	15	1	3
	ORIENTATION	8	0	0	8	33	1	3
3	ANATOMY							
	ANATOMY	12	0	0	12	14	1	3
	ANATOMY	15	0	0	15	15	1	3
	ANATOMY	12	0	0	12	25	1	5
	ANATOMY	200	0	0	200	33	1	3
	ANATOMY	36	0	0	36	82	1	3
4	ANATOMY AND PHYSIOLOGY							
	ANATOMY AND PHYSIOLOGY	40	0	0	40	6	1	3
	RESPIRATION PHYSIOLOGY-ANATOMY	80	0	0	60	7	1	3
	ANATOMY AND PHYSIOLOGY ADV	32	48	0	80 } 224	20	1	2
	ANATOMY AND PHYSIOLOGY	48	96	0	144	20	1	2
5	CHEMISTRY, GENERAL							
	CHEMISTRY	8	0	0	8	6	1	3
	CHEMISTRY	6	0	0	6	14	1	3
	CHEMISTRY	20	0	0	20	15	1	3
	CHEMISTRY	6	0	0	6	25	1	5
	CHEMISTRY	200	0	0	200	33	1	3
10	PHYSIOLOGY							
	PHYSIOLOGY	12	0	0	12	14	1	3
	PHYSIOLOGY	15	0	0	15	15	1	3
	PHYSIOLOGY	12	0	0	12	25	1	5
	PHYSIOLOGY OF RESPIRATION AND CIRC.	0	0	0	0	33	1	3
	CARDIOPULMONARY PHYSIOLOGY	61	0	0	61	82	1	3
13	ETHICS, PROFESSIONAL							
	ADJUSTMENT PROFESSIONAL	24	0	0	24	6	1	3
	ETHICS AND ADMINISTRATION	5	0	0	5	7	1	3
	ETHICS AND ADMINISTRATION	15	0	30	45	14	1	3
	ETHICS AND ADMINISTRATION	15	30	0	45 } 87	25	1	5
	MEDICAL	12	30	0	42	25	1	5
	ADJUSTMENT PROFESSIONAL	15	0	0	15	33	1	3

INHALATION THERAPIST, CONTINUED

CAREER NUMBER 15

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
.15	MATHEMATICS							
	MATH-HOSPITAL	8	0	0	8	15	1	3
	MATH-LABORATORY	17	0	0	17	82	1	3
.16	PSYCHOLOGY, GENERAL							
	PSYCHOLOGY	10	0	0	10	6	1	3
	PSYCHOLOGY	10	0	0	10	7	1	3
	PSYCHOLOGY	6	0	0	6	14	1	3
	PSYCHOLOGY OF PATIENT CARE	10	0	0	10	15	1	3
	PSYCHOLOGY GENERAL	48	0	0	48	20	1	2
	PSYCHOLOGY	6	0	0	6	25	1	5
.17	HEALTH, PERSONAL AND COMMUNITY							
	HEALTH	32	0	0	32	20	1	2
.20	MICROBIOLOGY							
	BACTERIOLOGY	12	0	0	12	6	1	3
	BACTERIOLOGY	5	0	0	5	7	1	3
	BACTERIOLOGY	12	0	0	12	14	1	3
	BACTERIOLOGY	17	0	0	17	15	1	3
	MICROBIOLOGY GENERAL	32	96	0	128	20	1	2
	BACTERIOLOGY	12	0	0	12	25	1	5
.21	PEDIATRICS							
	PEDIATRICS	6	0	15	21	14	1	3
	PEDIATRICS	6	15	42	63	25	1	5
	INTERMITT POS PRESS BREATHING,	0	0	0	0	33	1	3
.23	OBSTETRICS							
	OBSTETRICS	6	0	15	21	14	1	3
	OBSTETRICS	6	15	39	60	25	1	5
.24	PHARMACOLOGY							
	PHARMACOLOGY	40	0	0	40	6	1	3
	MEDICATIONS	10	0	0	10	7	1	3
	MEDICINE	12	0	30	42	14	1	3
	PHARMACOLOGY	14	0	0	14	15	1	3
	PHARMACOLOGY	9	0	0	9	25	1	5

INHALATION THERAPIST, CONTINUED

CAREER NUMBER 15

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
.29	PHYSICS							
	PHYSICS	20	0	0	20	6	1	3
	PHYSICS-CHEMISTRY OF RESPIRATION	30	0	0	30	7	1	3
	PHYSICS	10	0	0	10	14	1	3
	PHYSICS OF MEDICINE	20	0	0	20	15	1	3
	PHYSICS AND CONCEPTS	48	0	0	48	20	1	2
	PHYSICS	10	0	0	10	25	1	5
.30	ZOOLOGY							
	ZOOLOGY	48	0	48	96	82	1	1
.40	CHEMISTRY, INORGANIC							
	CHEMISTRY INORGANIC	32	0	48	80	82	1	1
.53	PATHOLOGY							
	PATHOLOGY	30	0	0	30	6	1	3
	PATHOLOGY	12	0	0	12	14	1	3
	PATHOLOGY	15	0	0	15	15	1	3
	PATHOLOGY	12	0	0	12	25	1	5
	CARDIOPULMONARY DISEASE	60	0	0	60	82	1	3
.64	TERMINOLOGY, MEDICAL							
	TERMINOLOGY AND MEDICAL	6	0	0	6	6	1	3
.84	ANESTHESIA							
	GASES-MEDICAL	20	0	0	20	6	1	3
	ANESTHESIA	8	0	0	8	33	1	3
.91	NEUROLOGY							
	NEUROSURGERY	3	0	15	18	14	1	3
	NEUROSURGERY	3	15	12	30	25	1	5
106	ORG. AND ADMIN., INHALATION THERAPY							
	ADMINISTRATION	30	0	0	30	6	1	3
	ADMINISTRATION PROCEDURES	16	0	0	16	20	1	2
107	EQUIPMENT OPERATION, INHALATION THERAPY							
	BREATHING DEVICES INTERMIT POS. PRES.	30	0	0	30	6	1	3
	GAS SUPPLY SYSTEMS SAFETY	20	0	0	20 100	6	1	3
	INCUBATORS CROUPETTES TENTS MASKS CANNU	40	0	0	40	6	1	3
	SUCTION DEVICES VACUUM	10	0	0	10	6	1	3
	EQUIPMENT TESTING AND ANALYSIS	10	0	15	25	14	1	3

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
107	EQUIPMENT OPERATION, INHALATION THERAPY, CONTINUED							
	FACIAL DEVICES	10	0	20	30	14	1	3
	GAS SUPPLY SYSTEMS-REGULATOR	5	0	15	20 220	14	1	3
	HUMIDIFICATION-NEBULIZATION-VAPORIZATIO	5	0	20	25	14	1	3
	MAINTENANCE PREVENTATIVE	15	0	25	40	14	1	3
	PRESSURE BREATHING TECH.	15	0	30	45	14	1	3
	TENTS HOODS INCUBATORS	10	0	25	35	14	1	3
	EQUIPMENT OPERATION THER. TECHNIQUES	132	0	0	132	15	1	3
	ANALYZERS AND TESTERS	6	6	23	35	25	1	5
	CHAMBERS AND HOODS	12	30	26	68	25	1	5
	CYLINDERS AND REGULATORS	6	15	7	28	25	1	5
	HUMIDIFIERS AND NEBULIZERS	21	33	14	68 546	25	1	5
	MASKS AND CATHETERS	12	21	36	69	25	1	5
	RESUSCITATORS + RESPIRATORS	18	45	42	105	25	1	5
	RESUSCITATORS AND RESPIRATORS	18	45	42	105	25	1	5
	TENTS AND INCUBATORS	15	30	23	68	25	1	5
	EQUIPMENT AFTERCARE, COMPLETE REVIEW	0	0	0	0	33	1	3
	EQUIPMENT, PIPING SYSTEMS	0	0	0	0	33	1	3
	OXYGEN CYLINDER, REG, ANALYIZERS	0	0	0	0	33	1	3
	OXYGEN TOXICITY EQUP. CARE STERILIZATIO	0	0	0	0	33	1	3
	EQUIPMENT TECHNIQUES	50	0	0	50	82	1	3
108	CLINICAL PRACTICE, INHALATION THERAPY							
	CLINICAL PRACTICE	0	0	2250	2250 2258	6	1	3
	VITAL SIGNS TEMP-PULSE-RESP.	8	0	0	8	6	1	3
	CLINICAL PRACTICE	0	500	0	500 650	14	1	3
	NURSING ARTS	0	150	0	150	14	1	3
	INHALATION THERAPY-CLINICAL MEDIC	132	0	0	132 112	15	1	3
	INHALATION THERAPY-NURSING ARTS	0	0	880	880	15	1	3
	CLINICAL INHALATION THERAPY EXP. ADV.	0	0	54	54	20	1	2
	CLINICAL INHALATION THERAPY EXP. BEG.	0	0	160	160 322	20	1	3
	CLINICAL INHALATION THERAPY EXP. INTERM	0	0	108	108	20	1	3
	CLINICAL PRACTICE	0	0	300	300	25	1	5
	CLINICAL PRACTICE	0	0	0	560 1010	25	1	5
	NURSING ARTS	0	0	150	150	25	1	5
	OPER RM, DEL RM, POST-OP,REC RM	0	0	0	0	33	1	3
	PATIENT CARE-ART AND TECHNOLOGY	0	0	800	800	82	1	3
109	INHALATION THERAPY							
	EMERGENCY THERAPY	30	0	0	30	6	1	3
	HYPERBARIC SYSTEM	15	0	0	15 75	6	1	3
	LUNG FUNCTION ANALYSIS	30	0	0	30	6	1	3
	CLINICAL ASPECTS INHALATION THERA	60	0	0	60 120	7	1	3
	METHODS PROCEDURES	60	0	0	60	7	1	3

INHALATION THERAPIST , CONTINUED

CAREER NUMBER 15

	LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
109 INHALATION THERAPY, CONTINUED								
EMERGENCY	6	0	15	21		14	1	3
SAFE PRACTICES	5	0	5	10	73	14	1	3
SURGERY-GENERAL	6	0	15	21		14	1	3
SURGERY-THORACIC	6	0	15	21		14	1	3
SPECIALTY INTRO	4	0	0	4		15	1	3
FUNDAMENTAL INHALATION THERAPY	32	96	0	128		20	1	3
PROCEDURES APP. INHAL. THERAPY BEG.	16	0	56	72	536	20	1	3
PROCEDURES APPLICATION INHAL THERAPY AD	48	96	0	144		20	1	2
PRO. APP. INHAL. THERAPY INTERMED.	48	0	144	192		20	1	3
ASPIRATION AND SUCTION	4	5	20	29		25	1	5
BRONCHIOGRAM-SCOPE	4	4	22	30		25	5	8
EMERGENCY	6	15	0	21	308	25	1	5
HYPO.-HYPERTHERMIA	6	10	36	52		25	1	5
PULMONARY FUNCTION STUDIES	6	10	40	56		25	1	5
SURGERY-GENERAL	6	15	40	61		25	1	5
SURGERY-THORACIC	6	15	38	59		25	1	5
CLASS TEXT	75	0	0	75		33	1	3
ISOLATION	4	0	0	4	79	33	1	3
TECH USED, MAIN CONDITIONS + INTR	0	0	0	0		33	1	3
INHALATION THERAPY	33	0	0	33	43	82	1	3
LABORATORY TECHNIQUES	10	0	0	10		82	1	3
110 ORIENTATION, INHALATION THERAPY								
HISTORY-INHALATION THERAPY	4	0	0	4		15	1	3
ORIENTATION-INHALATION THERAPY	16	0	0	16		20	1	3
INHALATION THERAPY DEPT., ORGAN. FUNCTI	0	0	0	0		33	1	3
124 GENERAL EDUCATION								
ENGLISH-EFFECTIVE WRITING	48	0	0	48		20	1	2
FINE ARTS ELECTIVE	48	0	0	48		20	1	2
PHYSICAL EDUCATION	8	0	0	8		20	1	2
PHYSICAL EDUCATION	8	0	0	8		20	1	2
PHYSICAL EDUCATION	8	0	0	8		20	1	2
PHYSICAL EDUCATION	8	0	0	8		20	1	2
SCIENCE SOCIAL LIT - PHILOS- ELECTIVE	48	0	0	48		20	1	2
SPEECH EFFECTIVE SPEAKING	48	0	0	48		20	1	2
SCIENCES PHYSICAL	26	0	0	26		82	1	3
125 ELECTIVES								
ELECTIVES	48	0	0	48		20	1	2

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MEDICAL ASSISTANT                                                 CAREER NUMBER  16
                                                      LECT   LAB   CLIN   TOTL   INST  CLAS  LEVL
     0  UNCOMMON
           GROOMING                                      6     0      0      6     55     1     5
           LECTURES-DOCTORS AND OTHERS                  10     0      0     10     55     1     5

     4  ANATOMY AND PHYSIOLOGY
           ANATOMY AND PHYSIOLOGY 1                     60     0      0     60}120 10     1     2
           ANATOMY AND PHYSIOLOGY 2                     60     0      0     60}    10     1     2
           ANATOMY TOPOGRAPHICAL AND ELEM.PHYSIOLO      80     0      0     80     16     1     5
           ANATOMY AND PHYSIOLOGY                        0     0      0      0     54     1     5

     5  CHEMISTRY, GENERAL
           CHEMISTRY, CLINICAL                          24    36      0     60     10     1     2

    13  ETHICS, PROFESSIONAL
           OFFICE MAGM.-ETHICS RECEPT SKILLS             7     3      0     10     55     1     5

    14  NUTRITION
           NUTRITION                                     0     0      0      0     54     1     5

    16  PSYCHOLOGY, GENERAL
           PSYCHOLOGY                                    0     0      0      0     54     1     5

    18  HUMAN RELATIONSHIPS
           PERSONAL DEVELOPMENT                         48     0      0     48}96  10     1     2
           RELATIONS HUMAN                              48     0      0     48}    10     1     2

    20  MICROBIOLOGY
           BACTERIOLOGY                                 16    24      0     40     10     1     2

    27  FIRST AID
           FIRST AID                                     0     0      0      0     54     1     5

    34  PSYCHOLOGY, APPLIED
           PSYCHOLOGY APPLIED                           52     0      0     52     16     1     5

    45  LAB. TECHNIQUES, MED. TECH.
           LABORATORY TECHNIQUES                         0     0      0    228     16     1     5
           LABORATORY TECHNIQUES, MEDICAL                0     0      0      0     54     1     5
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MEDICAL ASSISTANT, CONTINUED

CAREER NUMBER 16

		LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
46	URINALYSIS								
	URINE AND GASTRICS	24	36	0	60		10	1	2
49	ELECTROCARDIOGRAPH [EKG]								
	EKG	4	4	0	8		55	1	5
50	HEMATOLOGY								
	HEMATOLOGY	48	72	0	120		10	1	2
56	ACCOUNTING								
	ACCOUNTING MEDICAL	0	0	0	110		16	1	5
	BOOKKEEPING	16	0	0	16		55	1	5
62	OFFICE PRACTICE								
	OFFICE PRACTICE CLINICAL	120	0	0	120	204	10	1	2
	OFFICE PRACTICE MEDICAL	84	0	0	84		10	1	2
	OFFICE PROCEDURES CLINICAL	0	0	0	78		16	1	5
	ASSISTING SKILLS, MEDICAL	0	0	0	0		54	1	5
	EXTERNSHIP PROGRAM, HOSPITAL	0	0	0	0		54	1	3
	OFFICE PROCEDURE	0	0	0	0		54	1	5
	EXPERIENCE-INTERNSHIP DR.-OFFICE	0	0	160	160		55	1	5
	INSURANCE MEDICAL	10	4	0	14	216	55	1	5
	NURSING OFFICE	36	6	0	42		55	1	5
63	SECRETARIAL PRACTICE AND PROCEDURES								
	SECRETARIAL DUTIES MEDICAL	0	0	0	350		16	1	5
	RECORDS, MEDICAL	0	0	0	0		54	1	5
	COLLECTION ACCOUNTS	4	0	0	4		55	1	5
64	TERMINOLOGY, MEDICAL								
	TERMINOLOGY AND MEDICAL	0	0	0	0		54	1	5
	TERMINOLOGY AND MEDICAL	79	65	0	144		55	1	5
65	TYPING								
	TYPING 1	60	0	0	60		10	1	2
	TYPING 2	60	0	0	60	240	10	1	2
	TYPING 3	60	0	0	60		10	1	2
	TYPING 4	60	0	0	60		10	1	2
	TYPING	0	230	0	230		16	1	5

MEDICAL ASSISTANT, CONTINUED

		LECT	LAB	CLIN	CAREER NUMBER 16 TOTL	INST	CLAS	LEVL
68	ADMINISTRATION, DEPARTMENTAL							
	X-RAY DEPT MANAGEMENT	22	0	0	22	10	1	5
82	RADIATION THERAPY							
	X-RAY TECHNIQUE	0	0	0	170	10	1	5
	X-RAY TECHNIQUES	36	48	0	84 338	10	1	2
	X-RAY TECHNIQUES	36	48	0	84	10	1	2
111	ORIENTATION, MEDICAL ASSISTANT							
	FUTURE, FACING THE	24	0	0	24	16	1	5
124	GENERAL EDUCATION							
	COMMUNICATIONS 1	36	0	0	36	10	1	2
	COMMUNICATIONS 2	36	0	0	36	10	1	2
	COMMUNICATIONS 3	24	0	0	24	10	1	2
	COMMUNICATIONS 4	24	0	0	24	10	1	2
	COMMUNICATION SKILLS	0	0	0	0	54	1	5
125	ELECTIVES							
	MISC.	36	0	0	36	16	1	5

LABORATORY ASSISTANT

CAREER NUMBER 17

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
0	UNCOMMON							
	TRAINING, LIMITATION OF	0	0	0	0	53	1	5
4	ANATOMY AND PHYSIOLOGY							
	ANATOMY AND PHYSIOLOGY	180	0	0	180	58	1	3
5	CHEMISTRY, GENERAL							
	CHEMISTRY GENERAL	0	0	0	0	53	1	5
	CHEMISTRY, CLINICAL	0	0	0	120 120	53	1	5
	CHEMISTRY	240	0	0	240	58	1	3
	CHEMISTRY, CLINICAL	120	0	1080	1200 144	58	1	3
	CHEMISTRY, CLINICAL	32	0	0	480	59	1	3
	CHEMISTRY	30	0	0	400	62	1	3
13	ETHICS, PROFESSIONAL							
	ETHICS AND MEDICAL	0	0	0	0	53	1	5
	ADJUSTMENT PROFESSIONAL	30	0	0	30	58	1	3
	ETHICS AND MEDICAL	15	0	0	15 75	58	1	3
	ETHICS, CATHOLIC HOSPITAL	30	0	0	30	58	1	3
15	MATHEMATICS							
	MATH-LABORATORY	0	0	0	0	53	1	5
	MATHEMATICS BASIC LABORATORY	180	0	0	180	58	1	3
20	MICROBIOLOGY							
	MICROBIOLOGY BACTERIOLOGY SERO. PARAS.	0	0	0	120	53	1	5
	BACTERIOLOGY PARASITOLOGY	75	0	585	660	58	1	3
	BACTERIOLOGY	18	0	0	240	59	1	3
	BACTERIOLOGY	16	0	0	320	62	1	3
43	HISTOLOGY							
	HISTOLOGY	0	0	0	20	53	1	5
45	LAB. TECHNIQUES, MED. TECH.							
	ROUTINE ANALYSIS	10	0	0	240	62	1	3
46	URINALYSIS							
	URINALYSIS	0	0	0	160	53	1	5
	URINALYSIS	12	0	0	120	58	0	0
	URINALYSIS	45	0	414	459 579	58	1	3

LABORATORY ASSISTANT

CAREER NUMBER 17

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
47	BLOOD BANK							
	BLOOD BANK	0	0	0	40	53	1	5
	BLOOD BANK	75	0	585	660	58	1	3
	BLOOD BANK	18	0	0	240	59	1	3
	BLOOD BANKING	10	0	0	240	62	1	3
49	ELECTROCARDIOGRAPH [EKG]							
	EKG	0	0	0	20	53	1	5
50	HEMATOLOGY							
	HEMATOLOGY	0	0	0	160	53	1	5
	HEMATOLOGY	90	0	810	900	58	1	3
	HEMATOLOGY	24	0	0	48	59	1	3
	HEMATOLOGY	20	0	0	400	62	1	3
54	SEROLOGY							
	SEROLOGY	12	0	0	12 } 471	58	1	3
	SEROLOGY	45	0	414	459 }	58	1	3
62	OFFICE PRACTICE							
	QUALITY CONTROL, BASIC ELEMENTS OF	45	0	0	45 } 60	58	1	3
	RECORDS, LABORATORY	15	0	0	15 }	58	1	3
64	TERMINOLOGY, MEDICAL							
	TERMINOLOGY AND MEDICAL	180	0	0	180	58	1	3
112	BASAL METABOLISM RATE [BMR]							
	BMR	0	0	0	20	53	1	5
	BMR, EKG	0	0	270	270	58	1	3
	BMR, EKG	6	0	0	6	59	1	3
	BMR,EKG	5	0	0	80	62	1	3
113	LAB. ASSISTANT RESPONSIBILITIES							
	LAB. ASST, RESPONSIBILITY OF	0	0	0	0 }	53	1	5
	LAB.SEVR.RELATIONSHIP TOTHERHOSP. DEPTS	0	0	0	0 }	53	1	5
	LABORATORY, SAFETY IN	0	0	0	0 }	53	1	5
	ORIENTATION	66	0	0	240	59	1	3
	ORIENTATION-LABORATURY	30	0	0	400	62	1	3
124	GENERAL EDUCATION							
	COMMUNICATION SKILLS	33	0	0	33	11	1	1

MEDICAL RECORD LIBRARIAN

CAREER NUMBER 18

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
0	UNCOMMON							
	AFILLIATIONS (U.W. HOSPITALS)	0	0	0	0	49	1	3
	SCHOOL REQUIREMENTS FIELD OF	0	0	0	345	84	1	5
3	ANATOMY							
	ANATOMY	0	0	0	60	84	1	5
4	ANATOMY AND PHYSIOLOGY							
	ANATOMY AND PHYSIOLOGY	100	0	0	100	26	1	3
	ANATOMY AND PHYSIOLOGY	45	0	0	45 } 90	77	1	1
	ANATOMY AND PHYSIOLOGY	0	45	0	45	77	1	1
	ANATOMY AND PHYSIOLOGY	0	0	0	105	79	1	1
	ANATOMY AND PHYSIOLOGY	0	0	0	120 } 240	84	1	5
	ANATOMY AND PHYSIOLOGY	0	0	0	120	84	1	5
5	CHEMISTRY, GENERAL							
	CHEMISTRY GENERAL	45	0	0	45 } 90	77	1	1
	CHEMISTRY GENERAL	0	45	0	45	77	1	1
10	PHYSIOLOGY							
	PHYSIOLOGY	0	0	0	60	84	1	5
13	ETHICS, PROFESSIONAL							
	ETHICS AND MEDICAL	30	0	0	30	49	1	3
15	MATHEMATICS							
	STATISTICS, INTRO	54	0	0	54	30	1	1
	ALGEBRA COLLEGE OR STATISTICS	0	0	0	45	58	1	3
	ALGEBRA	45	0	0	45 } 180	77	1	1
	MATHEMATICS FRIGONOMETRY	45	0	0	45	77	1	1
	MATH INTRO. STATISTICS 1	45	0	0	45	77	1	1
	MATH INTRO. STATISTICS 2	45	0	0	45	77	1	1
	MATHEMATICS	0	0	0	90 } 135	84	1	5
	MATH STATISTICS	0	0	0	45	84	1	5
16	PSYCHOLOGY, GENERAL							
	PSYCHOLOGY	25	0	0	25	26	1	3
	PSYCHOLOGY GENERAL	45	0	0	45	77	1	1
	PSYCHOLOGY INTRODUCTORY	0	0	0	45	84	1	5

MEDICAL RECORD LIBRARIAN, CONTINUED

CAREER NUMBER 18

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
19	SOCIOLOGY							
	SOCIOLOGY AND GENERAL	45	0	0	45	77	1	1
	SCIENCE AND SOCIAL	0	0	0	90	84	1	5
	SCIENCE AND SOCIAL	0	0	0	90	84	1	5
	SCIENCE AND SOCIAL	0	0	0	45 } 585	84	1	5
	SCIENCE AND SOCIAL	0	0	0	45	84	1	5
	SCIENCE SOCIAL PSYCHOLOGY BUS. ADMIN.	0	0	0	180	84	1	5
	SOCIOLOGY AND PSYCHOLOGY	0	0	0	90	84	1	5
	SOCIOLOGY	0	0	0	45	84	1	5
	SCIENCE, SOCIAL	45	0	0	45	101	1	3
20	MICROBIOLOGY							
	BACTERIOLOGY	0	15	0	15	69	1	1
	MICROBIOLOGY LAB.	0	90	0	90 } 120	77	1	1
	MICROBIOLOGY	30	0	0	30	77	1	1
	BACTERIOLOGY	0	0	0	45	84	1	5
25	THEOLOGY							
	THEOLOGY 1	120	0	0	120	39	1	1
	THEOLOGY 1	120	0	0	120 } 525	39	1	1
	THEOLOGY 2	120	0	0	120	39	1	1
	THEOLOGY 2	165	0	0	165	39	1	1
30	ZOOLOGY							
	ZOOLOGY	45	0	0	45 } 45	77	1	1
	ZOOLOGY	0	0	0	0	77	1	1
34	PSYCHOLOGY, APPLIED							
	PSYCHOLOGY APPLIED	45	0	0	45	77	1	1
60	FILING							
	FILING	0	0	0	0	77	1	1
61	OFFICE MACHINES							
	BUSINESS MACHINES	0	0	0	0	77	1	1
	BUSINESS MACHINES, ADV.	45	0	0	45 } 135	77	1	1
	COMPUTERS, INTRO TO	45	0	0	45	77	1	1
	PROGRAMMING	45	0	0	45	77	1	1
	BUSINESS MACHINES ADV. AND STATISTICS	144	0	0	144	85	1	1

MEDICAL RECORD LIBRARIAN , CONTINUED

CAREER NUMBER 18

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
64	TERMINOLOGY, MEDICAL							
	TERMINOLOGY AND MEDICAL	64	0	0	64	5	1	3
	TERMINOLOGY AND MEDICAL	30	0	0	30	26	1	3
	TERMINOLOGY MEDICAL	30	0	0	30	28	1	1
	TERMINOLOGY AND MEDICAL 1	15	0	0	15 } 30	39	1	1
	TERMINOLOGY AND MEDICAL 2	15	0	0	15	39	1	1
	TERMINOLOGY AND MEDICAL	45	0	0	48	49	1	3
	TERMINOLOGY AND MEDICAL	30	0	0	30	52	1	1
	TERMINOLOGY AND MEDICAL	36	0	0	36	58	1	3
	TERMINOLOGY AND MEDICAL	0	0	0	45	69	1	1
	TERMINOLOGY AND MEDICAL	30	0	0	30	77	1	1
	TERMINOLOGY AND MEDICAL	0	0	0	30	79	1	1
	TERMINOLOGY AND MEDICAL	0	0	0	60	84	1	5
	TERMINOLOGY AND MEDICAL	60	0	0	60	85	1	1
	TERMINOLOGY AND MEDICAL	39	0	0	39	86	1	3
	TERMINOLOGY, MEDICAL	30	0	0	30	100	1	1
	TERMINOLOGY, MEDICAL	60	0	0	60	101	1	3
65	TYPING							
	TYPING	0	45	0	45	77	1	1
66	ECONOMICS							
	ECONOMICS, ELEMENTARY	45	0	0	45	39	1	1
	ECONOMICS	0	0	0	45	84	1	5
114	ORG. AND ADMIN., MED. RECORDS LIBR.							
	ADMINISTRATION AND ORGANIZATION	27	86	31	144 } 178	5	1	3
	MEDICAL RECORD ADMINISTRATION PROBLEMS	34	0	0	34	5	1	3
	MANAGEMENT	10	0	0	10	26	1	3
	ORGANIZATION + ADMINISTRATION	30	0	0	30 } 60	28	1	1
	ORGANIZATION + ADMINISTRATION	30	0	0	30	28	1	1
	HEALTH SERVICES, ORG. PATTERNS	36	0	0	36 } 90	30	1	1
	OFFICE MANAGEMENT PERSONNEL	54	0	0	54	30	1	1
	ADMINISTRATION AND ORGANIZATION	60	0	0	60 } 210	49	1	3
	ADMINISTRATION PROBLEM SOLVING	15	30	0	45	49	1	3
	MANAGEMENT AND ORGANIZATION	60	0	0	60	49	1	3
	MEDICAL RECORD ADMINISTRATION PROBLEMS	15	0	0	15	49	1	3
	MEDICAL RECORD ADMINISTRATION PROBLEMS	30	0	0	30	49	1	3
	ADMINISTRATION AND ORGANIZATION	60	0	0	60	52	1	1
	ADMINISTRATION AND ORGANIZATION	72	72	0	144 } [illegible]	58	1	3
	MEDICAL RECORD ADMINISTRATION PROBLEMS	36	0	0	36	58	1	3
	ADMINISTRATION AND ORGANIZATION	30	0	0	30 }	69	1	1

MEDICAL RECORD LIBRARIAN , CONTINUED

CAREER NUMBER 18

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
114	ORG. AND ADMIN., MED. RECORDS LIBR. CONTINUED							
	ADMINISTRATION AND ORGANIZATION	45	45	0	90 460	69	1	1
	ADMINISTRATION AND ORGANIZATION	45	45	0	90	69	1	1
	MEDICAL RECORD ADMINISTRATION PROBLEMS	250	0	0	250	69	1	1
	ADMINISTRATIVE PROBLEMS	30	0	0	30	77	1	1
	MEDICAL RECORD ADMINISTRATION PROBLEMS	60	90	90	240 315	77	1	1
	OFFICE MANAGEMENT	45	0	0	45	77	1	1
	ADMINISTRATION AND ORGANIZATION	15	0	0	15 45	79	1	1
	PROBLEM SOLVING, SEMINAR	30	0	0	30	79	1	1
	ADMINISTRATION AND ORGANIZATION	0	0	0	90 120	84	1	5
	MEDICAL RECORD ADMINISTRATION PROBLEMS	0	0	0	30	84	1	5
	ADMINISTRATION AND ORGANIZATION 1	24	24	96	144	85	1	1
	ADMINISTRATION AND ORGANIZATION 2	24	24	0	48 228	85	1	1
	ADMINISTRATION AND ORGANIZATION 4	36	0	0	36	85	1	1
	ADMINISTRATION AND ORGANIZATION	78	65	0	143 176	86	1	3
	MEDICAL RECORD ADMINISTRATION PROBLEMS	33	0	0	33	86	1	3
	ORGANIZATION ADMINISTRATION	90	0	0	90	100	1	1
115	DIRECTED PRACTICE, MED. RECORDS LIBR.							
	CLINICAL PRACTICE	0	0	417	417	5	1	3
	WORK METHODS AND STANDARDS	36	0	0	36	30	1	1
	CLINICAL PRACTICE	0	0	420	420	49	1	3
	CLINICAL PRACTICE	0	0	345	345 1365	49	1	3
	CLINICAL PRACTICE	0	0	300	300	49	1	3
	CLINICAL PRACTICE	0	0	300	300	49	1	3
	CLINICAL PRACTICE	0	0	105	105	52	1	3
	CLINICAL PRACTICE	0	0	504	504	58	1	3
	CLINICAL PRACTICE	0	0	288	288	69	1	1
	CLINICAL PRACTICE 1	0	75	0	75 150	79	1	1
	CLINICAL PRACTICE 2	0	75	0	75	79	1	1
	CLINICAL PRACTICE	0	0	105	105	84	1	5
	CLINICAL PRACTICE 4	0	0	240	240	85	1	1
	CLINICAL PRACTICE	0	0	505	505	86	1	3
	PRACTICE, DIRECTED	0	0	105	105	100	1	1
	DIRECTED PRACTICE EXPERIENCE	30	0	30	60 90	101	1	3
	DIRECTED PRACTICE	30	0	0	30	101	1	3
116	MED. RECORD SCIENCE, MED. RECORDS LIBR.							
	CODING AND INDEXING	0	41	0	41	5	1	3
	DISCHARGE ANALYSIS PROCEDURE	0	145	0	145 498	5	1	3
	MEDICAL RECORD SCIENCE-LEC. AND LAB.	0	0	0	312	5	1	3
	LIBRARY SCIENCE MEDICAL RECORE	100	0	0	100	26	1	3
	MEDICAL RECORD SCIENCE	30	0	0	30	28	1	1
	MEDICAL RECORD SCIENCE	30	0	0	30	28	1	1

MEDICAL RECORD LIBRARIAN, CONTINUED

CAREER NUMBER 18

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
116 MED. RECORD SCIENCE, MED. RECORDS LIBR., CONTINUED							
MEDICAL RECORD SCIENCE	30	0	0	30	28	1	1
MEDICAL RECORD SCIENCE	45	0	0	45 960	28	1	1
MEDICAL RECORD SCIENCE [1]	75	0	225	300	28	1	1
MEDICAL RECORD SCIENCE [2]	75	0	450	525	28	1	1
MEDICAL-RECORD ANALYSIS	72	0	0	72 144	30	1	1
MEDICAL RECORD SCIENCE	72	0	0	72	30	1	1
MEDICAL RECORDES PROCEDURE 1	30	0	0	30	39	1	1
MEDICAL RECORD SCIENCE 1	60	0	0	60	39	1	1
MEDICAL RECORD SCIENCE 2	60	0	0	60 210	39	1	1
MEDICAL RECORD SCIENCE	30	0	0	30	39	1	1
MEDICAL RECORDS PROCEDURE 2	30	0	0	30	39	1	1
CODING AND CONFERENCE	30	0	0	30	49	1	3
MEDICAL RECORD SCIENCE	30	30	0	60 230	49	1	3
MEDICAL RECORD SCIENCE	48	0	0	45	49	1	3
MEDICAL RECORD SCIENCE	75	30	0	105	49	1	3
MEDICAL RECORD SCIENCE	180	0	0	180 240	52	1	1
MEDICAL RECORDS SEMINAR IN	60	0	0	60	52	1	1
MEDICAL RECORD SCIENCE	144	144	0	288	58	1	3
MEDICAL RECORD SCIENCE	60	60	60	180	69	1	1
MEDICAL RECORD SCIENCE	60	60	60	180 660	69	1	1
MEDICAL RECORD SCIENCE	60	60	180	300	69	1	1
MEDICAL RECORD SCIENCE	45	90	90	225 255	77	1	1
MEDICAL RECORDS INTRO.	30	0	0	30	77	1	1
MEDICAL RECORD SCIENCE 1	0	0	0	45 90	79	1	1
MEDICAL RECORD SCIENCE 2	45	0	0	45	79	1	1
MEDICAL RECORD SCIENCE	0	0	0	150	84	1	5
MEDICAL RECORD 2	48	48	0	96	85	1	1
MEDICAL RECORD SCIENCE 1	48	48	0	96 258	85	1	1
MEDICAL RECORD SCIENCE 3	48	48	0	96	85	1	1
MEDICAL RECORD SCIENCE	144	140	0	284	86	1	3
MEDICAL RECORD SCIENCE	180	0	0	180 210	100	1	1
MEDICAL RECORD SCIENCE	30	0	0	30	100	1	1
MEDICAL RECORD SCIENCE	60	0	0	60 1050	101	1	3
MEDICAL RECORD SCIENCE	90	0	900	990	101	1	3
117 MED. RECORD SCIENCE, FUNDAMENTALS							
MEDICAL SCIENCE FUNDAMENTALS	177	0	0	177	5	1	3
MEDICAL SCIENCE FUNDAMENTALS	30	0	0	30	26	1	3
MEDICAL RECORD ADMIN. SEMINAR	36	108	160	304	30	1	1
MEDICAL RECORD ADMIN. SEMINAR	36	108	0	144 502	30	1	1
MEDICAL SCIENCE FUNDAMENTALS	54	0	0	54	30	1	1
MEDICAL SCIENCE FUNDAMENTALS	30	0	0	30	39	1	1
MEDICAL ESSENTIALS C.P.C.	15	0	0	15	49	1	3

CAREER NUMBER 18

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
117	MED. RECORD SCIENCE, FUNDAMENTALS, CONTINUED							
	MEDICAL ESSENTIALS C.P.C.	15	0	0	15 75	49	1	3
	MEDICAL ESSENTIALS	45	0	0	45	49	1	3
	MEDICAL SCIENCE FUNDAMENTALS	60	0	0	60	52	1	1
	MEDICAL SCIENCE FUNDAMENTALS	72	0	0	72	58	1	3
	MEDICAL SCIENCE FUNDAMENTALS 1	30	0	0	30	69	1	1
	MEDICAL SCIENCE FUNDAMENTALS 2	30	0	0	30 90	69	1	1
	MEDICAL SCIENCE FUNDAMENTALS 3	30	0	0	30	69	1	1
	MEDICAL SCIENCE FUNDAMENTALS	30	0	0	30 118	77	1	1
	MEDICAL SCIENCE FUNDAMENTALS	90	0	8	98	77	1	1
	MEDICAL SCIENCE FUNDAMENTALS	60	0	0	60	79	1	1
	MEDICAL SCIENCE FUNDAMENTALS 2	0	0	0	30 90	84	1	5
	MED. REC. SCIENCE AND MED. SCIENCE FUND	0	0	0	60	84	1	5
	MEDICAL SCIENCE FUNDAMENTALS 1	60	0	0	60 120	85	1	1
	MEDICAL SCIENCE FUNDAMENTALS 2	60	0	0	60	85	1	1
	MEDICAL SCIENCE FUNDAMENTALS	110	0	0	110	86	1	3
	MEDICAL RECORD SCIENCE FUNDAMENTALS	60	0	0	60	100	1	1
118	MED. RECORD SCIENCE, LEGAL ASPECTS							
	MEDICAL RECORDS LEGAL ASPECTS OF	38	0	0	38	5	1	3
	MEDICAL RECORD ADMIN., LEGAL ASPECTS	32	0	0	36	30	1	1
	MEDICINE LEGAL	30	0	0	30	49	1	3
	MEDICAL RECORDS LEGAL ASPECTS OF	30	0	0	30	52	1	1
	MEDICAL RECORD SCIENCE LEGAL ASPECTS	36	0	0	36	58	1	3
	MEDICAL RECORDS LEGAL ASPECTS	0	0	0	30	84	1	5
	MEDICAL RECORDS LEGAL ASPECTS OF	36	0	48	84	85	1	1
	MEDICAL RECORD SCIENCE LEGAL ASPECTS	33	0	0	33	86	1	3
	LEGAL ASPECTS OF MEDICAL REC. SCIENCE	30	0	0	30 60	100	1	1
	MEDICAL RECORDS LEGAL ASPECTS	30	0	0	30	100	1	1
	LEGAL ASPECTS OF MED. REC. SCIENCE	30	0	0	30	101	1	3
124	GENERAL EDUCATION							
	ART APPRECIATION	45	0	0	45 90	39	1	1
	SCIENCE, POLITICAL	45	0	0	45	39	1	1
	PHYSICAL EDUCATION	0	0	0	15	58	1	3
	DEMOCRACY AND COMMUNISM	15	0	0	15	77	1	1
	ENGLISH 1 COMPOSITION AND RHETORIC	45	0	0	45	77	1	1
	ENGLISH 2 COMPOSITION AND RHETORIC	45	0	0	45	77	1	1
	ENGLISH LITERATURE 1	45	0	0	45	77	1	1
	ENGLISH LITERATURE 2	45	0	0	45	77	1	1
	GOVERNMENT, AMERICAN	45	0	0	45	77	1	1
	HISTORY MODERN EUROPE	45	0	0	45	77	1	1
	HISTORY, ANC. AND MEDICIAL EUROPE	45	0	0	45	77	1	1
	LANGUAGE AND FOREIGN	45	0	0	45	77	1	1

	LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
124 GENERAL EDUCATION, CONTINUED							
LANGUAGE AND FOREIGN	45	0	0	45	77	1	1
LANGUAGE AND FOREIGN	45	0	0	45	77	1	1
LANGUAGE AND FOREIGN	45	0	0	45	77	1	1
PHYSICAL EDUCATION	0	45	0	45	77	1	1
PHYSICAL EDUCATION	0	45	0	45	77	1	1
PHYSICAL EDUCATION	0	45	0	45	77	1	1
PHYSICAL EDUCATION	0	45	0	45	77	1	1
SPEECH FUNDAMENTALS	45	0	0	45	77	1	1
BIOLOGY	0	0	0	120	84	1	5
BIOLOGY	0	0	0	120	84	1	5
ENGLISH COMP. AND LITERATURE	0	0	0	90	84	1	5
ENGLISH COMP. AND LIT.	0	0	0	90	84	1	5
ENGLISH LITERATURE	0	0	0	45	84	1	5
ENGLISH LIT.	0	0	0	45	84	1	5
ENGLISH	0	0	0	90	84	1	5
HUMANITIES	0	0	0	90	84	1	5
PHYSICAL EDUCATION	0	0	0	30	84	1	5
PHYSICAL EDUCATION	0	0	0	30	84	1	5
PHYSICAL EDUCATION	0	0	0	30	84	1	5
PHYSICAL EDUCATION	0	0	0	30	84	1	5
PHYSICAL EDUCATION	0	0	0	30	84	1	5
PHYSICAL EDUCATION	0	0	0	30	84	1	5
SCIENCE	0	0	0	90	84	1	5
SCIENCES, BIOLOGICAL	0	0	0	120	84	1	5
SPEECH	0	0	0	45	84	1	5
SPEECH	0	0	0	45	84	1	5
SPEECH	0	0	0	45	84	1	5
GENERAL EDUCATION	60	0	0	60	98	1	2
GENERAL EDUCATION	30	0	0	30	101	1	3
GENERAL EDUCATION	60	0	0	60	101	1	3
GENERAL EDUCATION	60	0	0	60	101	1	3
GENERAL EDUCATION	90	0	0	90	101	1	3
GENERAL EDUCATION	90	0	0	90	101	1	3
GENERAL EDUCATION	90	0	0	90	101	1	3
PHYSICAL EDUCATION	15	0	0	15	101	1	3
125 ELECTIVES							
ELECTIVES	0	0	0	90	58	1	3
ELECTIVES	45	0	0	45	77	1	1
ELECTIVES	0	0	0	90	84	1	5
ELECTIVES	0	0	0	90	84	1	5
ELECTIVES	0	0	0	240	84	1	5
ELECTIVES	0	0	0	75	84	1	5

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MEDICAL RECORD LIBRARIAN, CONTINUED                                     CAREER NUMBER  18
                                                          LECT   LAB   CLIN   TOTL   INST  CLAS  LEVL
    125  ELECTIVES , CONTINUED
              ELECTIVES                                     0     0      0    180     84     1     5
              ELECTIVES                                     0     0      0    180     84     1     5
              ELECTIVES                                     0     0      0    180     84     1     5
              ELECTIVES                                     0     0      0    180     84     1     5
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MEDICAL RECORD TECHNICIAN

CAREER NUMBER 19

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
3	ANATOMY							
	ANATOMY	40	0	0	40	58	1	3
4	ANATOMY AND PHYSIOLOGY							
	ANATOMY AND PHYSIOLOGY	40	0	0	40	96	1	3
	ANATOMY AND PHYSIOLOGY	60	0	0	60	97	1	3
	ANATOMY + PHYSIOLOGY	60	0	0	60	98	1	2
	ANATOMY + PHYSIOLOGY	40	0	0	40	99	1	3
	ANATOMY AND PHYSIOLOGY	40	0	0	40	102	1	3
63	SECRETARIAL PRACTICE AND PROCEDURES							
	SECRETARIAL PRACTICE	0	0	0	0	58	1	3
	SECRETARIAL PRACTICE	0	0	60	60	96	1	3
	SECRETARIAL PRACTICE	0	0	120	120	97	1	3
	SECRETARIAL PRACTICE	0	0	60	60	98	1	2
	SECRETARIAL PRACTICE	0	0	80	80	98	1	3
	SECRETARIAL PRACTICE	0	0	36	36	99	1	3
	SECRETARIAL PRACTICE	0	0	36	36	99	1	3
	SECRETARIAL PRACTICE	0	0	36	36	99	1	3
	SECRETARIAL PRACTICE	0	0	36	36	99	1	3
	SECRETARIAL PRACTICE	0	0	184	184	102	1	3
64	TERMINOLOGY, MEDICAL							
	TERMINOLOGY AND MEDICAL	30	0	0	30	58	1	3
	MEDICAL TERMINOLOGY	30	0	0	30	96	1	3
	MEDICAL TERMINOLOGY	45	0	0	45	97	1	3
	MEDICAL TERMINOLOGY	60	0	0	60	98	1	2
	MEDICAL TERMINOLOGY	25	0	0	25	99	1	3
	MEDICAL TERMINOLOGY	72	0	0	72	102	1	3
114	ORG. AND ADMIN., MED. RECORDS LIBR.							
	DATA MANAGEMENT AND REPORTS	0	0	0	0	58	1	3
	DISCHARGE PROCEDURES	0	0	0	0	58	1	3
	OFFICE ADMITTING	0	0	0	0	58	1	3
	ORIENTATION	0	0	0	0	58	1	3
115	DIRECTED PRACTICE, MED. RECORDS LIBR.							
	DIRECTED PRACTICE	0	0	20	20	97	1	3
	DIRECTED PRACTICE	0	0	60	60	98	1	2
	DIRECTED PRACTICE	0	0	60	60	98	1	2
	DIRECTED PRACTICE	0	0	240	240	98	1	2

		LECT	LAB	CLIN	TOTL		INST	CLAS	LEVL
116	MED. RECORD SCIENCE, MED. RECORDS LIBR.								
	CODING AND INDEXING	0	0	0	0		58	1	3
	MEDICAL RECORD SCIENCE	0	0	0	0	65	58	1	3
	RECORD DEPARTMENT, MEDICAL	0	0	0	0		58	1	3
	RECORDS MEDICAL	65	0	0	65		58	1	3
	MEDICAL RECORD SCIENCE	0	0	60	60		96	1	3
	MEDICAL RECORD SCIENCE	0	0	300	300	440	96	1	3
	MEDICAL RECORD SCIENCE	0	0	15	15		96	1	3
	MEDICAL RECORD SCIENCE	0	0	0	65		96	1	3
	MEDICAL RECORD SCIENCE	90	90	0	180		97	1	3
	MEDICAL RECORD SCIENCE	0	0	60	60		97	1	3
	MEDICAL RECORD SCIENCE	0	0	100	100	480	97	1	3
	MEDICAL RECORD SCIENCE	0	0	40	40		97	1	3
	MEDICAL RECORD SCIENCE	0	0	100	100		97	1	3
	MEDICAL RECORD SCIENCE	72	0	0	72		98	1	2
	MEDICAL RECORD SCIENCE	0	0	36	36	144	98	1	2
	MEDICAL RECORD SCIENCE	0	0	36	36		98	1	2
	MEDICAL RECORD SCIENCE	10	0	0	10		99	1	3
	MEDICAL RECORD SCIENCE	10	0	0	10		99	1	3
	MEDICAL RECORD SCIENCE	36	0	0	36		99	1	3
	MEDICAL RECORD SCIENCE	40	0	0	40		99	1	3
	MEDICAL RECORD SCIENCE	0	0	72	72	1226	99	1	3
	MEDICAL RECORD SCIENCE	0	0	134	134		99	1	3
	MEDICAL RECORD SCIENCE	0	0	36	36		99	1	3
	MEDICAL RECORD SCIENCE	0	0	847	847		99	1	3
	MEDICAL RECORD SCIENCE	0	36	0	36		99	1	3
	MEDICAL RECORD SCIENCE	5	0	0	5		99	1	3
	MEDICAL RECORD SCIENCE	12	0	0	12		102	1	3
	MEDICAL RECORD SCIENCE	18	0	0	18		102	1	3
	MEDICAL RECORD SCIENCE	41	0	720	761	1623	102	1	3
	MEDICAL RECORD SCIENCE	0	0	320	320		102	1	3
	MEDICAL RECORD SCIENCE	0	0	504	504		102	1	3
	MEDICAL RECORD SCIENCE	8	0	0	8		102	1	3
118	MED. RECORD SCIENCE, LEGAL ASPECTS								
	MEDICAL RECORDS LEGAL ASPECTS	0	0	0	0		58	1	3
	LEGAL ASPECTS	0	0	20	20		97	1	3
	LEGAL ASPECTS	5	0	0	5		99	1	3
	LEGAL ASPECTS	14	0	0	14		102	1	3

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RADIOISOTOPE TECHNICIAN                                            CAREER NUMBER  20
                                                           LECT   LAB   CLIN   TOTL  INST  CLAS  LEVL
     0  UNCOMMON
          REVIEW                                              2     0      0      2   107     1     1
          REVIEW                                              2     0      0      2   107     1     1
          REVIEW                                              2     0      0      2   107     1     1
          REVIEW                                              2     0      0      2   107     1     1
          REVIEW                                              2     0      0      2   107     1     1

     4  ANATOMY AND PHYSIOLOGY
          ANATOMY AND PHYSIOLOGY                             80     0      0     80     5     1     3
          ANATOMY AND PHYSIOLOGY                             30     0      0     30    57     1     3
          ANATOMY + PHYSIOLOGY                               30     0      0     30   106     1     3

    29  PHYSICS
          ELECTRICITY BASIC                                  35     0      0     35     5     1     3

    64  TERMINOLOGY, MEDICAL
          TERMINOLOGY AND MEDICAL                            20     0      0     20     5     1     3

    68  ADMINISTRATION, DEPARTMENTAL
          OFFICE PROCEDURES-RADIOISOTOPE RECORDS              5     0      0      5     5     1     3
          RECORDS ADMIN. PROCEDURES                           5     0    150    155}306  58     1     3
          RECORDS CODING FILING                               3     0    150    153}     58     1     3
          RECORDS-ADMIN-CODING-FILING, PROCEDURES             5     0      0      5}8   108     1     3
          RECORDS, ADDMIN-FILING + CODING                     3     0      0      3}    108     1     3

    74  RADIATION SAFETY
          PROTECTION-HANDLING RADIOACTIVE SUBSTAN            20     0      0     20     5     1     3
          PROTECTION-SHIELDING                               10     0    225    235    58     1     3
          PROTECT-HAND-SHIELD OF RADIOACTIVE SUBS             0     0    654    654   106     1     3
          PROTECT-HANDLING PADIOACTIVE SUBSTANCES             2     0      0      2   107     1     1
          PROTECT HAND SHIELD OF RADIOACTIVE SUBS            10     0      0     10   108     1     3

    81  RADIATION PHYSICS
          ATOMIC STRUCTURE-RADIOACTIVITY                     40     0      0     40     5     1     3
          PHYSICS AND BASIC RADIATION                        35     0      0     35    57     1     3
          PHYSICS AND BASIC RADIATION                        20     0    150    170    58     1     3
          BASIC PHYSICS + RADIATION                           0     0    654    654   106     1     3
          PHYSICS + BASIC RADIATION                          20     0      0     20   108     1     3
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RADIOISOTOPE TECHNICIAN , CONTINUED

CAREER NUMBER 20

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
83	RADIOGRAPHIC ISOTOPES							
	INTRO-RADIOISOTOPES-INSTRUMENTATION-PRO	30	0	0	30	57	1	3
	RADIOISOTOPE LAB EXPERIMENTS	0	30	0	30 120	57	1	3
	RADIOISOTOPES ADV - DEMOS-CONF-QUIZ.	60	0	0	60	57	1	3
	CLINICAL LAB EQUIP.-PROCEDURES	10	0	225	235	58	1	3
	INTRO RADIOISOTOPES	20	0	0	20 257	58	1	3
	ORIENTATION-RADIOSOTOPE	2	0	0	2	58	1	3
	INTRO. RADIOISOTOPES	2	0	0	2	107	1	1
	RADIOISITOPE LAB. EXPERIMENTS	0	6	0	6	107	1	1
	RADIOISITOPE LAB. EXPERIMENTS	0	3	0	3	107	1	1
	RADIOISITOPE LAB. EXPERIMENTS	0	6	0	6	107	1	1
	RADIOISOTOPE LAB. EXPERIMENTS	0	3	0	3 35	107	1	1
	RADIOISOTOPE LAB. EXPERIMENTS	0	3	0	3	107	1	1
	RADIOISOTOPE LAB. EXPERIMENTS	0	3	0	3	107	1	1
	RADIOISOTOPE LAB. EXPERIMENTS	0	3	0	3	107	1	1
	RADIOISOTOPE LAB. EXPERIMENTS	0	3	0	3	107	1	1
	RADIOISOTOPE LAB. EXPERIMENTS	2	0	0	2	107	1	1
	RADIOISOTOPE LAB. EXPERIMENTS	2	0	0	2	107	1	1
	RADIOISOTOPE LAB. EXPERIMENTS	2	0	0	2	107	1	1
	INTRODUCTION TO RADIOISOTOPES	20	0	0	20 22	108	1	3
	INTRODUCTION TO RADIOISOTOPES	2	0	0	2	108	1	3
119	CLINICAL PRACTICE, RADIOISOTOPE TECH.							
	CLINICAL PRACTICE	0	0	3700	3700	5	1	3
	PROCEDURES-CLINICAL RADIOISOTOPE	0	0	1800	1800	57	1	3
	PROCEDURES SPECIFIC	130	0	675	805	58	1	3
	CLINICAL PROCEDURES	30	0	0	30	106	1	3
	CLINICAL PRACTICE	40	0	150	190	108	1	3
120	DIAGNOSTIC PROCEDURES, RADIOISOTOPE TECH							
	DIAGNOSTIC PROCEDURES RADIOISOTOPES	40	0	0	40	5	1	3
	PROCEDURES-RADIOISOTOPE-EQUIP-CALCULA-R	160	0	0	160	57	1	3
	DIAGNOSTIC PROCEDURES RADIOISOTOPES	0	3	0	3	107	1	1
	DIAGNOSTIC PROCEDURES RADIOISOTOPES	0	2	0	2	107	1	1
	DIAGNOSTIC PROCEDURES RADIOISOTOPES	2	0	0	2	107	1	1
	DIAGNOSTIC PROCEDURES RADIOISOTOPES	2	0	0	2	107	1	1
	PROCEDURES, CLINICAL RADIOISOTOPES	10	0	0	10	108	1	3

RADIOISOTOPE TECHNICIAN, CONTINUED CAREER NUMBER 20

		LECT	LAB	CLIN	TOTL	INST	CLAS	LEVL
121	INSTRUMENTATION, RADIOISOTOPE TECH.							
	INSTRUMENTATION	40	0	0	40	5	1	3
	INSTRUMENTATION	40	0	225	265	58	1	3
	INSTRUMENTATION	15	15	0	30	106	1	3
	INSTRUMENTATION	2	0	0	2	107	1	1
	INSTRUMENTATION	2	0	0	2	107	1	1
	INSTRUMENTATION	2	0	0	2	107	1	1
	INSTRUMENTATION	2	0	0	2	107	1	1
	INSTRUMENTATION	15	30	0	45	108	1	3
122	RADIOBIOLOGY, RADIOISOTOPE TECH.							
	RADIOBIOLOGY	20	0	0	20	5	1	3
	RADIATION PROTECTION AND RADIOBIOLOGY	10	0	0	10	57	1	3
	INTERACTION OF RADIATION PHYSIOLGICAL S	10	0	150	160	58	1	3
	RADIOBIOLOGY	0	0	654	654	106	1	3
	RADIOBIOLOGY	0	2	0	2	107	1	1
	RADIOBIOLOGY	0	2	0	2	107	1	1
	RADIOBIOLOGY	2	0	0	2	107	1	1
	RADIOBIOLOGY	2	0	0	2	107	1	1
	RADIOBIOLOGY	10	0	0	10	108	1	3
	RADIOBIOLOGY	10	0	0	10	108	1	3
123	MATHEMATICS, RADIOLOGICAL							
	MATHEMATICS	10	0	0	10	5	1	3
	MATH RADIOLOGICAL	10	0	0	10	57	1	3
	MATH RADIOLOGICAL	30	0	225	255	58	1	3
	RADIATION UNITS	5	0	75	80	58	1	3
	MATHEMATICS-RADIOLOGICAL	30	0	0	30	106	1	3
	MATHEMATICS, RADIOLOGICAL	30	0	0	30	108	1	3
	MATH, RADIOLOGICAL	5	0	0	5	108	1	3

("Clas"), Table 7, opposite these two course titles the "1" indicates that the training institution was one offering post-high school work. In column 8,("Levl"), Table 7, the "3" indicates that this training institution is a hospital. This information may be found by referring again to Table 4 for code number and level designation for each of the 110 training institutions from which the 126 paramedical educational programs were obtained.

An inspection of the listings of the 22 separate courses under the subject classification of "Nursing Fundamentals" gives other interesting information. For example, these 22 course titles are all from 12 different training institutions. Only two of the 12 different training institutions (numbers 23 and 42) require laboratory experience in Nursing Fundamentals. Only four of these training institutions (numbers 1, 9, 40, and 61) required hours in clinical practice in this subject classification. The requirement in clinical practice ranges from 20 to 360 clock hours in these four schools. The total clock hour requirement in Nursing Fundamentals for these 12 training institutions ranges from 18 hours in training institution #29 to 465 hours in training institution #58.

After a consideration of the example above, it is apparent that Table 7, the computer print-out listing, has valuable information which can be used for comparative purposes concerning the subject classifications and separate course titles, clock hours devoted to lecture, laboratory, and clinical practice, as well as the minimum and maximum number of clock hours required in a particular paramedical career program by the various training institutions. A cross reference can be made with Table 4 for the location of other data concerning the training institutions which is also enlightening.

The Number of Programs Analyzed, Course Titles Classified and Subject Classifications Resulting in Each Paramedical Career Studied

Table 8 is designed to give the reader a quick summarization as well as a means of making numerical comparisons with the data from the computer output presented in Table 7. Table 8 shows the 20 paramedical careers listed in code number order and the total number of programs analyzed in each. Column 4, Table 8 shows the number of separate course titles analyzed and assigned to subject classifications numbers 1-123. Column 5, Table 8, presents the number of separate course titles which were classified as follow:

0	Uncommon Courses
124	General Education
125	Electives

Column 6, Table 8, reveals the total number of course titles classified in each paramedical career. Column 7, Table 8, shows the number of different subject classifications to which the total course titles were assigned. For example, consider career #1, three-year registered nurse. Table 8 in column 3 shows that the curricular analysts for this career examined 18 programs from different training institutions and found 425 different course titles, (401 technical plus 24 classified as Uncommon, General Education, or Electives), which they assigned to 27 different general subject classifications. Curricular analysts for all careers examined 2,278 technical courses plus 335 Uncommon, General Education, and Elective courses which were assigned to 126 subject classifications.

An Analysis of the Commonality of the 78 Subject Classifications Found to be Required in Two or More of the 20 Paramedical Careers Studied

Table 9 is a concise computer print-out summary of the commonality of the subject classifications to the 20 paramedical careers.

TABLE 8

THE NUMBER OF PROGRAMS ANALYZED, COURSE TITLES CLASSIFIED, AND SUBJECT CLASSIFICATIONS RESULTING IN EACH PARAMEDICAL CAREER

Code No.	Paramedical Career	Programs Analyzed	Number of Course Titles Assigned Subject Classifications			Number of Subject Classifications in each Paramedical Career
			#1-123	#0,124-5	Total	
1	3-year R.N.	18	401	24	425	27
2	2-year R.N.	11	156	79	235	21
3	L.P.N.	9	119	3	122	20
4	Nurse Aide	2	18	2	20	7
5	Dental Assistant	2	26	7	33	21
6	Medical Technologist	12	163	12	175	32
7	Medical Secretary	9	136	24	160	29
8	Radiologic Technologist	3	163	49	212	32
9	Dental Hygienist	4	99	18	117	30
10	Dental Technician	1	7	4	11	3
11	Physical Therapist	9	225	18	243	32
12	Physical Therapist Ass't.	1	16	2	18	4
13	Occupational Therapist	7	168	6	174	27
14	Occupational Therapy Ass't.	2	21	1	22	9
15	Inhalation Therapist	8	138	12	150	27
16	Medical Assistant	4	43	8	51	24
17	Laboratory Assistant	4	45	2	47	18
18	Medical Record Librarian	15	190	59	249	25
19	Medical Record Technician	2	66	0	66	8
20	Radioisotope Technician	3	77	5	82	13
	TOTALS	126	2278	335	2613	

Although identification of code numbers for the 20 paramedical careers and other information may be found in Table 5, they are listed below fpr quick reference in reading and interpreting Table 9.

1 Three-Year Registered Nurse
2 Two-Year Registered Nurse
3 Licensed Practical Nurse
4 Nurse Aide
5 Dental Assistant
6 Medical Technologist
7 Medical Secretary
8 Radiologic Technologist
9 Dental Hygienist
10 Dental Technician
11 Physical Therapist
12 Physical Therapist Assistant
13 Occupational Therapist
14 Occupational Therapy Assistant
15 Inhalation Therapist
16 Medical Assistant
17 Laboratory Assistant
18 Medical Record Librarian
19 Medical Record Technician
20 Radioisotope Technician

In column 1, Table 9, the general subject classifications are listed in code number order, (See Table 6), except that the Subject Classification "0", Uncommon Courses, is listed last. As indicated before, Subject Classifications "0", "124", and "125" are described as Uncommon Courses, General Education Courses, and Elective Courses respectively. Table 9 reveals that, for example, the subject classification "Nursing Fundamentals" is required in four paramedical careers: three-year registered nurse, two-year registered nurse, licensed practical nurse, and nurse aide. Table 9 further reveals that the subject classification "General Education" is required in 16 of the 20 paramedical careers. The subject classification, "Anatomy and Physiology", is required in 15 of the paramedical occupations. The 11 most frequent commonalities are as follow:

Subject Classification	Number of Paramedical Careers to Which Common
General Education	16
Anatomy and Physiology	15
Microbiology	14
Uncommon Courses	14
Anatomy	12
Ethics, Professional	12
Psychology, General	12
Electives	12
Terminology, Medical	11
Mathematics	9
Chemistry, General	9

TABLE 9

AN ANALYSIS OF THE COMMONALITY OF THE 126 SUBJECT CLASSIFICATIONS FOUND TO BE REQUIRED IN TWO OR MORE OF THE 20 PARAMEDICAL CAREERS

SUBJECT CLASSIFICATIONS	CAREERS																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
NURSING, FUNDAMENTALS	*	*	*	*																
NURSING TRENDS	*	*																		
ANATOMY	*	*				*		*	*	*	*	*	*		*			*	*	
ANATOMY AND PHYSIOLOGY	*	*	*			*	*	*	*			*	*		*	*	*	*	*	*
CHEMISTRY, GENERAL	*	*				*		*	*						*	*	*	*		
HUMAN GROWTH AND DEVELOPMENT	*	*	*				*		*		*									
NURSING	*	*																		
NURSING, CLINICAL CONFERENCE	*																			
CLINICAL PRACTICE, NURSING	*												*							
PHYSIOLOGY	*	*				*			*		*		*		*			*		
NURSING, MEDICAL SURGICAL	*	*	*	*																
VOCATIONAL RELATIONSHIPS			*		*				*											
ETHICS, PROFESSIONAL	*		*		*		*	*	*		*	*			*	*	*	*		
NUTRITION	*	*	*	*	*				*							*				
MATHEMATICS			*			*	*	*	*		*				*		*	*		
PSYCHOLOGY, GENERAL	*	*	*				*	*	*		*	*	*		*	*		*		
HEALTH, PERSONAL AND COMMUNITY	*	*	*		*			*	*		*				*					
HUMAN RELATIONSHIPS	*			*			*							*		*				
SOCIOLOGY	*	*	*					*	*				*					*		
MICROBIOLOGY	*	*	*		*	*	*	*	*		*		*		*	*	*	*		

Table 9 cont.

SUBJECTS	CAREERS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PEDIATRICS	*	*	*								*		*		*					
NURSING, PSYCHIATRIC	*	*	*								*		*	*						
OBSTETRICS	*	*	*												*					
PHARMACOLOGY	*		*						*						*					
THEOLOGY	*						*		*		*		*					*		
DIETETICS			*																	
FIRST AID	*		*		*		*	*	*			*				*				
BOTANY						*														
PHYSICS	*	*				*		*			*				*					*
ZOOLOGY		*				*		*							*			*		
NURSING, GERIATRICS	*		*	*																
NURSING, PROCEDURES				*																
OFFICE TRAINING AND MANAGEMENT					*															
PSYCHOLOGY, APPLIED					*		*									*		*		
TERMINOLOGY, DENTAL					*															
DENTAL ASSISTING					*				*											
CHEMISTRY, QUANTITATIVE						*														
CHEMISTRY, QUALITATIVE						*														
CHEMISTRY, ORGANIC						*														
CHEMISTRY, INORGANIC						*									*					
BIOCHEMISTRY						*			*											
CLINICAL LAB. PROBLEMS, MED. TECH.						*														
HISTOLOGY						*			*		*						*			
IMMUNOLOGY						*														
LAB. TECHNIQUES, MED. TECH.						*	*									*	*			
URINALYSIS						*	*									*	*			
BLOOD BANK						*											*			
CYTOLOGY						*														
ELECTROCARDIOGRAPH [EKG]						*										*	*			
HEMATOLOGY						*	*									*	*			
MICRO-TECHNIQUE, MED. TECH.						*														
PARASITOLOGY						*														
PATHOLOGY					*	*			*		*		*		*					
SEROLOGY						*											*			
VIROLOGY						*														
ACCOUNTING							*									*				
ANATOMY-PHYSICS							*													
BUSINESS CORRESPONDENCE							*													
SHORTHAND, GENERAL AND MEDICAL							*													
FILING							*											*		

Table 9 cont.

SUBJECTS	CAREERS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
OFFICE MACHINES							*											*		
OFFICE PRACTICE							*					*				*	*			
SECRETARIAL PRACTICE AND PROCEDURES							*									*			*	
TERMINOLOGY, MEDICAL							*	*				*	*	*	*	*	*	*	*	*
TYPING					*		*									*		*		
ECONOMICS							*											*		
MEDICAL SCIENCE CONFERENCES							*													
ADMINISTRATION, DEPARTMENTAL								*								*				*
FILM CRITIQUE								*												
DARKROOM CHEMISTRY AND TECHNIQUE								*												
DISEASES, MEDICAL SURGICAL								*												
EQUIPMENT, RADIOLOGY								*												
RADIATION THERAPY								*												
RADIATION SAFETY								*												*
RADIOGRAPHIC EXPOSURE TECHNIQUES								*												
RADIOGRAPHIC POSITIONING								*												
RADIOGRAPHIC PROCEDURES								*												
RADIOGRAPHY, INTRA-ORAL					*			*	*		*									
RADIOGRAPHY, PEDIATRICS								*												
RADIOLOGY, NURSING PROCEDURES								*												
RADIATION PHYSICS							*	*												*
RADIATION THERAPY								*								*				
RADIOGRAPHIC ISOTOPES						*		*												*
ANESTHESIA					*				*						*					
DENTAL ANATOMY					*				*											
CLINICAL PRACTICE, DENTAL					*				*											
DENTAL HEALTH					*				*											
ORIENTATION, DENTAL					*				*											
DENTAL MATERIALS									*	*										
PHYSICAL AGENTS, PHYSICAL THERAPY											*	*	*							
NEUROLOGY											*		*		*					
CLINICAL ASSIGNMENT, PHYSICAL THERAPY											*	*								
ORG. AND ADMIN., PHYSICAL THERAPY											*									
ORIENTATION, PHYSICAL THERAPY											*	*								
PHYSICAL THERAPY											*	*								
THERAPEUTIC EXERCISE											*	*	*	*						
ORIENTATION, OCCUPATIONAL THERAPY													*	*						
HANDCRAFTS													*							
OCUPATIONAL THERAPY													*							
PRINCIPLES AND PRACTICES, OCCUP. THERAPY													*	*						

Table 9, cont.

SUBJECTS	CAREERS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
KINESIOLOGY											*		*							
ORG. AND ADMIN., OCCUP. THERAPY													*							
PHYSICAL DISABILITIES													*							
CLINICAL ASSIGNMENT, OCCUP. THERAPY													*	*						
TESTS AND MEASUREMENTS, PHYSICAL											*		*	*						
ORG. AND ADMIN., INHALATION THERAPY															*					
EQUIPMENT OPERATION, INHALATION THERAPY															*					
CLINICAL PRACTICE, INHALATION THERAPY															*					
INHALATION THERAPY															*					
ORIENTATION, INHALATION THERAPY															*					
ORIENTATION, MEDICAL ASSISTANT																*				
BASAL METABOLISM RATE [BMR]																	*			
LAB. ASSISTANT RESPONSIBILITIES																	*			
ORG. AND ADMIN., MED. RECORDS LIBR.																		*	*	
DIRECTED PRACTICE, MED. RECORDS LIBR.																		*	*	
MED. RECORD SCIENCE, MED. RECORDS LIBR.																		*	*	
MED. RECORD SCIENCE, FUNDAMENTALS																		*		
MED. RECORD SCIENCE, LEGAL ASPECTS																		*	*	
CLINICAL PRACTICE, RADIOISOTOPE TECH.																				*
DIAGNOSTIC PROCEDURES, RADIOISOTOPE TECH																				*
INSTRUMENTATION, RADIOISOTOPE TECH.																				*
RADIOBIOLOGY, RADIOISOTOPE TECH.																				*
MATHEMATICS, RADIOLOGICAL																				*
GENERAL EDUCATION	*	*	*	*	*	*	*	*	*		*	*	*		*	*	*	*		

Table 9 reveals that 48 of the 126 subject classifications listed were required in only one of the 20 paramedical fields, while 78 subject classifications (including the three subject classifications "0", "124", and "125" were required in two or more of the 20 paramedical careers.

The Total Number of Subject Classifications, Course Titles, and the Commonality of Subject Classification in Each of the 20 Paramedical Careers Studied

Table 10 is a synthesis of data taken from Tables 6, 7, 8, and 9. A reference to the four previous tables is desirable for best interpretation of data in Table 10. From this Table it can be seen that of the 126 subject classifications the following information obtains:

48 subject classifications relate to only one paramedical career,
30 subject classifications are common to 2 paramedical careers,
11 subject classifications are common to 3 paramedical careers,
13 subject classifications are common to 4 paramedical careers,
2 subject classifications are common to 5 paramedical careers,
5 subject classifications are common to 6 paramedical careers,
3 subject classifications are common to 7 paramedical careers,
3 subject classifications are common to 8 paramedical careers,
2 subject classifications are common to 9 paramedical careers,
1 subject classification is common to 11 paramedical careers,
4 subject classifications are common to 12 paramedical careers,
2 subject classifications are common to 14 paramedical careers,
1 subject classification is common to 15 paramedical careers,
1 subject classification is common to 16 paramedical careers,

126 total subject classifications assigned to all paramedical careers.

The Cross Reference Chart Showing Frequency of Commonality of 123 Subject Classifications Among the 20 Paramedical Careers Studied

Table 11 is a summary abstraction of the information revealed in Tables 7 and 9. Table 11 excludes from consideration the subject classifications of Uncommon Courses, #0 , General Education, #124, and Electives, #125. This cross reference chart shows the commonality of subject classifications between and among the 20 paramedical careers.

TABLE 10

THE TOTAL NUMBER OF SUBJECT CLASSIFICATIONS, COURSE TITLES AND THE COMMONALITY OF SUBJECT CLASSIFICATIONS IN EACH OF THE 20 PARAMEDICAL CAREERS

Code No.	Subject Classification	Paramedical Careers and Number of Courses per Subject Classification *																				Total No. Courses	No. PMC's to which subject classifications is common
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
		Number of Programs Analyzed in each Career																					
		18	11	9	2	2	12	9	2	4	1	9	1	7	2	8	4	4	15	2	3		
1	Nursing Fundamen.	22	17	13	2																	54	4
2	Nursing Trends	19	3																			22	2
3	Anatomy	8	3				4		3	3	2	12	1	4		5			1	1		47	12
4	Anatomy & Physio.	25	10	6			1	9	14	5			1	3		4	4	1	6	5	3	97	15
5	Chemistry, Gen.	6	6				13		6	5						5	1	6	2			50	9
6	Human Gro.& Devl.	6	6	4				3		2		2										23	6
7	Nursing	46	2																			48	2
8	Nursing,Clin.Conf.	10																				10	1
9	Nursing,Clin.Prac.	13												1								14	2
10	Physiology	5	4				6			2		16		6		5			1			45	8
11	Nursing,Med.Surg.	68	31	21	2																	122	4
12	Voca.Relationships			11		1				1												13	3
13	Ethics,Profess.	12		1		1		4	4	4		6	1			6	1	4	1			45	12
14	Nutrition	14	8	3	1	2				4							1					33	7
15	Mathematics			2			9	4	4	1		1				2		2	8			33	9
16	Psychology, Gen.	20	11	1				2	4	3		4	1	7		6	1		3			63	12
17	Health,Per.& Comm.	2	1	7		2			2	3		3				1						21	8
18	Human Relationship	6			1			2							1		2					12	5
19	Sociology	35	10	6					2	4				2					9			68	7
20	Microbiology	15	12	1		1	27	1	1	3		1		1		6	1	4	4			78	14
21	Pediatrics	13	8	10								1		3		3						38	6
22	Nursing Psychia.	17	10	4								7		9	2							49	6
23	Obstetrics	14	12	10												2						38	4
24	Pharmocology	7		5						3						5						20	4
25	Theology	15						3		5		4		3					4			34	6
26	Dietetics			9																		9	1
27	First Aid	1		2		2		1	1	2			1				1					11	8

TABLE 10 cont.

Code No.	Subject Classification	Paramedical Careers and Number of Courses per Subject Classification * 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total No. Courses	No. P,C's to which subject classifications is common
	Number of Programs Analyzed in each Career	18	11	9	2	2	12	9	2	4	1	9	1	7	2	8	4	4	15	2	3		
28	Botany						10															10	1
29	Physics	1	1				6		6			2				6					1	27	7
30	Zoology		1				3		2							1			2			9	5
31	Nursing, Geriatrics	1		3	2																	6	3
32	Nursing, Procedures				10																	10	1
33	Off. Train. & Manag.					2																2	1
34	Psychology, App.					3		1									1		1			6	4
35	Terminology					1																1	1
36	Dental Assisting					2				2												4	2
37	Chem. Quant.						10															10	1
38	Chem. Qualit.						4															4	1
39	Chem. Organic						10															10	1
40	Chem. Inorganic						1									1						2	2
41	Biochemistry						8			1												9	2
42	Clin. Lab. Prob., Med. Tecno						3															3	1
43	Histology						4			3		2						1				10	4
44	Immunology						6															6	1
45	Lab Tecnqs. Med Tecno						3	3									2	1				9	4
46	Urinalysis						3	1									1	3				8	4
47	Blood Bank						3											4				7	2
48	Cytology						2															2	1
49	EKG						2										1	1				4	3
50	Hematology						4	1									1	4				10	4
51	Micro-tecnq. Med Tecno						3															3	1
52	Parasitology						7															7	1
53	Pathology					1	2			4		11		1		5						24	6
54	Serology						5											2				7	2
55	Virology						3															3	1
56	Accounting							7									2					9	2
57	Anatomy-Physics							4														4	1
58	Business Corresp.							6														6	1

TABLE 10 cont.

Code No.	Subject Classification	Paramedical Careers and Number of Courses per Subject Classification *																				Total No. Courses	No. PMC's to which subject classifications is common
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
		Number of Programs Analyzed in each Career																					
		18	11	9	2	2	12	9	2	4	1	9	1	7	2	8	4	4	15	2	3		
59	Shorthand							20														20	1
60	Filing							3											1			4	2
61	Office Machines							3											5			8	2
62	Office Practice							14					1				9	2				26	4
63	Sec. Pract.& Procedure							10									3			10		23	3
64	Terminology,Medical							11	6				1	1	1	1	2	1	16	6	1	47	11
65	Typing					1		19									5		1			26	4
66	Economics							1											2			3	2
67	Med.Science Conf.							2														2	1
68	Admin., Departmental								11								1				5	7	3
69	Film Critique								11													11	1
70	Darkroom Chem.& Tecnq.								5													5	1
71	Diseases, Med.,Surgical								2													2	1
72	Equip. Radiology								2													2	1
73	Radiation Therapy								5													5	1
74	Radiation Safety								4												5	9	2
75	Radiographic exp. tecnqs.								16													16	1
76	Radiographic Positioning								10													10	1
77	Radiographic Proceds.								15													15	1
78	Radiography, Intra-Oral					1			3		4	1										9	4
79	Radiography, Pediatrics								4													4	1
80	Radiol. Nursing Procds.								7													7	1
81	Radiation Physics							1	7												5	13	3
82	Radiation Therapy								4								3					7	2
83	Radiographic Isotopes						1		2												20	23	3
84	Anesthesia					1				1						2						4	3
85	Dental Anatomy					1				8												9	2
86	Clin. Prac.,Dental					2				6												8	2
87	Dental Health					1				21												22	2
88	Orientation,Dental					1				1												2	2
89	Dental Materials									2	1											3	2

TABLE 10 cont.

Code No.	Subject Classification	Paramedical Careers and Number of Courses per Subject Classification *																				Total No. Courses	No. PMC's to which subject classifications is common
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
		Number of Programs Analyzed in each Career																					
		18	11	9	2	2	12	9	2	4	1	9	1	7	2	8	4	4	15	2	3		
90	Phys.Agents,Phys.Therapy											25	2	2								29	3
91	Neurology											10		7		2						19	3
92	Clin.Assign.Phys.Therapy											19	1									20	2
93	Org'n &Adm., Phys.Therapy											12										12	1
94	Orient., Phys.Therapy											5	1									6	2
95	Physical Therapy											30	3									33	2
96	Therapeutic Exercise											36	2	9	3							50	4
97	Orient., Occup.Therapy													5	4							9	2
98	Handicrafts													38								38	1
99	Occupational Therapy													14								14	1
100	Prin.&Prac.of Occup.Ther.													21	4							25	2
101	Kinesiology											5		8								13	2
102	Org'n &Adm.Occup. Ther.													4								4	1
103	Physical Disabilities													6								6	1
104	Clin. Assign., Occup. Ther.													11	4							15	2
105	Tests & Measur.,Physical											6		2	2							10	3
106	Orgn. &Adm. Inhal. Ther.															2						2	1
107	Equip. Oper., Inhal. Ther.															25						25	1
108	Clinical Practice															14						14	1
109	Inhalation Therapy															26						26	1
110	Orient.,Inhal. Ther.															3						3	1
111	Orient.,Med. Ass't.																1					1	1
112	Basal Metab. Rate(BMR)																	4				4	1
113	Lab Ass't Responsibilities																	5				5	1
114	Org'n & Adm, Med Rec Libr'n																		32	4		36	2
115	Dir. Prac.,Med Rec Libr'n																		17	4		21	2
116	Med Rec Science Libr'n																		40	32	72	72	2
117	Med Rec Science,Fundmts.																		23			23	1
118	Med Rec Science Legal Aspects																		11	4		15	2
119	Clin. Pract. Radioisotope Tech																				5	5	1
120	Diag. Proced. Radioiso. Tech																				7	7	1

TABLE 10 cont.

Code No.	Subject Classification	Paramedical Careers and Number of Courses per Subject Classification *																				Total No. Courses	No. PMC's to which subject classifications is common
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
		Number of Programs Analyzed in each Career																					
		18	11	9	2	2	12	9	2	4	1	9	1	7	2	8	4	4	15	2	3		
121	Instrumentation, Radioiso. Tech																				8	8	1
122	Radiobiology, Radioiso. Tech																				10	10	1
123	Math., Radiological																				7	7	1
124)		22	75	3	2	5	7	21	38	14		8	1	2		9	5	1	47			260	16
125)		2	4			1	3	2	11	3		3		1		1	1		10			42	12
0	Uncommon					1	2	1		1	4	7	1	3	1	2	2	1	2	0	5	33	
	TOTAL COURSE TITLES	425	235	122	20	33	175	160	212	117	11	243	18	174	22	150	52	47	249	56	82	2613	
	SUBJECT CLASSIFICATIONS 1-123	401	156	119	18	26	163	136	163	99	7	225	16	168	21	138	44	45	190	66	77	2277	

TABLE 11

CROSS REFERENCE CHART SHOWING FREQUENCY OF COMMONALITY OF 123* SUBJECT CLASSIFICATIONS AMONG THE 20 PARAMEDICAL CAREERS STUDIED

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
3 Yr. R.N.	1	*	19	16	5	5	6	8	10	14	1	11	5	11	2	12	8	4	9	2	2
2 Yr. R.N.	2	19	*	12	3	3	7	4	9	10	1	9	3	8	1	11	5	3	8	2	2
L.P.N.	3	16	12	*	4	6	3	4	8	12	0	8	4	6	1	9	6	4	6	1	1
N.A.	4	5	3	4	*	1	0	1	1	1	0	0	0	0	1	0	2	0	0	0	0
D.A.	5	5	3	6	1	*	2	4	5	13	1	5	3	2	0	5	6	2	4	0	0
MED. TECHNO.	6	6	7	3	0	2	*	6	8	9	1	7	2	5	0	10	7	11	7	2	3
MED. SEC.	7	8	4	4	1	4	6	*	8	7	0	6	6	5	2	6	14	9	12	3	3
RAD. TECHNO.	8	10	9	8	1	5	8	8	*	10	3	8	5	6	1	11	8	6	9	3	6
D.H.	9	14	10	12	1	13	9	7	10	*	2	11	5	8	0	10	7	6	10	1	1
D.T.	10	1	1	0	0	1	1	0	3	2	*	2	1	1	0	1	0	0	1	1	0
P.T.	11	11	9	8	0	5	7	6	8	11	2	*	7	13	3	11	3	5	7	1	1
F.T.A.	12	5	3	4	0	3	2	6	5	5	1	7	*	6	2	5	6	5	4	3	2
O.T.	13	11	8	6	0	2	5	5	6	8	1	13	6	*	6	9	4	3	8	3	2
O.T.A.	14	2	1	1	1	0	0	2	1	0	0	3	2	6	*	1	2	1	1	1	1
I.T.	15	12	11	9	0	5	10	6	11	10	1	11	5	9	1	*	4	6	10	3	4
MED. ASS'T.	16	8	5	6	2	6	7	14	8	7	0	3	6	4	2	4	*	10	7	3	3
LAB. ASS'T.	17	4	3	4	0	2	11	9	6	6	0	5	4	3	1	6	10	*	6	3	2
M.R. LIBR.	18	9	8	6	0	4	7	12	9	10	1	7	4	8	1	10	7	6	*	3	2
M.R. TECH.	19	2	2	1	0	0	2	3	3	1	1	1	3	3	1	3	3	3	3	*	2
RAD. TECH.	20	2	2	1	0	0	3	3	6	1	0	1	2	2	1	4	3	2	2	2	*

* Subject classifications of general education, electives and subjects uncommon are excluded.

For example, career #1, three-year registered nurse, has 19 subject classifications in common with career #2, two-year registered nurse; 16 subject classifications in common with career #3, licensed practical nurse; 10 subject classifications in common with career #8, radiologic technologist; 14 subject classifications in common with career #9, dental hygienist; and only one subject classification in common with the dental technician. The occurrence of commonality in subject classifications between two different paramedical careers was frequently observed. The following information presents the 24 occasions of greatest occurrence of commonality which existed between two different paramedical careers:

Career # 1 and Career # 2 had 19 subject classifications in common.
" " 1 " " " 3 " 16 " " " "
" " 1 " " " 9 " 14 " " " "
" " 7 " " " 16 " 14 " " " "
" " 5 " " " 9 " 14 " " " "
" " 11 " " " 13 " 13 " " " "
" " 2 " " " 3 " 12 " " " "
" " 3 " " " 9 " 12 " " " "
" " 7 " " " 18 " 12 " " " "
" " 1 " " " 11 " 11 " " " "
" " 9 " " " 11 " 11 " " " "
" " 1 " " " 13 " 11 " " " "
" " 2 " " " 15 " 11 " " " "
" " 8 " " " 15 " 11 " " " "
" " 11 " " " 15 " 11 " " " "
" " 7 " " " 17 " 11 " " " "
" " 1 " " " 8 " 10 " " " "
" " 2 " " " 9 " 10 " " " "
" " 8 " " " 9 " 10 " " " "
" " 6 " " " 15 " 10 " " " "
" " 9 " " " 15 " 10 " " " "
" " 16 " " " 17 " 10 " " " "
" " 9 " " " 18 " 10 " " " "
" " 15 " " " 18 " 10 " " " "

Table 11 also shows the absence of commonality in subject classifications between and among the 20 paramedical fields.

The Minimum and the Maximum Number of Combined Lecture, and Clinical Practice Experience (Expressed in Total Clock Hours) Required in Each of the 78 Classifications Which Were Common To Two Or More of the 20 Paramedical Careers Studied

Table 12 is a general summary table showing the least number and the greatest number (expressed in total clock hours) of combined lecture, laboratory and clinical practice experience required in the 78 subject classifications found common in two or more of the 20 paramedical programs studied. Column 1, Table 12, shows the code number in numerical sequence for each of the 78 subject classifications which are common to two or more of the 20 paramedical careers. Column 2, Table 12, presents the 78 general subject classifications by name and lists for each classification the paramedical careers to which it is common. The remaining columns reveal the minimum and maximum number (expressed in total clock hours) required in combined lecture, laboratory, and clinical practice experiences for each (numbered 1 through 20) paramedical career for each of the 78 subject classifications. Consider the subject classifications #1, Nursing Fundamentals. This classification is common to careers #1, 2, 3, and 4 as identified earlier. Note that the total clock-hour requirements for career #1, three-year registered nurse, range from 10 to 465 hours for the subject classification, Nursing Fundamentals, as compared to 3 to 40 hours for career #4, Nurse Aide.

TABLE 12

THE MINIMUM AND THE MAXIMUM NUMBER OF COMBINED LECTURE, LABORATORY, AND CLINICAL PRACTICE EXPERIENCES (EXPRESSED IN TOTAL CLOCK HOURS) REQUIRED IN EACH OF THE 78 SUBJECT CLASSIFICATIONS WHICH ARE COMMON TO TWO OR MORE OF THE 20 PARAMEDICAL CAREERS STUDIED

CODE NUMBER	CAREER TITLE	3 YR R.N.	2 YR R.N.	LPN	NA	DENT ASST	MED TECN	MED SEC	RAD TECN	DENT HY	DENT TECH	PT	PTA	OT	OTA	IT	MED ASST	LAB ASST	M.R. LIBR	M.R. TECH	RAD TECH	TOTAL RANGE
	CAREER NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	Nursing, Fundamentals	10 465	81 558	224 415	3 40																	3-558
2	Nursing, Trends	15 72	16 32																			15-72
3	Anatomy	57 192	80 96				72 210		624 624	60 60	510 510	120 1316	75 75	90 210		12 200			60 60	40 40		12-1316
4	Anatomy and Physiology	38 240	44 256	32 102			64 64	30 130	90 294	90 164			75 75	135 300		40 224	80 120	180 180	90 240	96 102	30 80	30-300
5	Chemistry, General	33 80	66 198				49 1120		90 150	60 180						6 200	60 60	120 1440	90 90			6-1440
6	Human Growth and Development	32 54	33 55	18 64				48 90		48 48		15 45										15-90
7	Nursing	20 5871	176 192																			20-5871
9	Nursing, Clinical Practice	120 3474												3 3								3-3474
10	Physiology	60 192	33 144				48 165			* *		32 750		75 150		12 61			60 60			12-750

*This subject classification included as a part of another subject classification in this field.

TABLE 12 Continued

CODE NUMBER	CAREER TITLE / CAREER NUMBER	3 YR R.N. 1	2 YR R.N. 2	LPN 3	NA 4	DENT ASST 5	MED TECN 6	MED SEC 7	RAD TECN 8	DENT HY 9	DENT TECH 10	PT 11	PTA 12	OT 13	OTA 14	IT 15	MED ASST 16	LAB ASST 17	M.R. LIBR 18	M.R. TECH 19	RAD TECH 20	TOTAL RANGE
11	Nursing Medical Surgical	320 3768	318 1188	400 1034	158 810																	158-3768
12	Vocational Relationships			24 84		7 7				* *												7-84
13	Ethics, Professional	15 64		16 16		12 12		24 60	10 310	15 32		8 78	30 30			5 87	10 10	75 75	30 30			5-310
14	Nutrition	12 72	32 48	16 76	5 5	30 60				30 32							* *					5-76
15	Mathematics			12 48			36 128	24 75	45 90	75 75		60 60				8 17		180 180	45 180			8-180
16	Psychology, General	30 160	48 55	16 16				45 45	45 60	45 48		60 75	45 45	30 345		6 48	* *		25 45			6-345
17	Health, Personal and Community	36 40	22 22	18 54		30 30			30 30	32 32		4 15				32 32						4-54
18	Human Relations	12 1322			4 4			45 52							8 8		96 96					4-1322
19	Sociology	15 144	33 55	10 50					45 75	45 120				45 45					45 585			10-585
20	Microbiology	36 256	55 128	16 16		30 30	96 880	60 60	90 90	75 75		6 6		15 15		5 128	40 40	120 660	15 120			5-880
21	Pediatrics	112 916	112 240	156 270								8 8		45 75		21 63						8-916

TABLE 12 Continued

CODE NUMBER	CAREER TITLE	3 YR R.N.	2 YR R.N.	LPN	NA	DENT ASST	MED TECN	MED SEC	RAD TECN	DENT HY	DENT TECH	PT	PTA	OT	OTA	IT	MED ASST	LAB ASST	M.R. LIBR	M.R. TECH	RAD TECH	TOTAL RANGE
	CAREER NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
22	Nursing, Psychiatric	120 460	144 240	92 166								12 45		45 165	44 44							12-460
23	Obstetrics	109 816	128 240	120 448												21 60						21-816
24	Pharmacology	18 64		32 231						32 45						9 42						9-231
25	Theology	31 120						90 90		90 90		135 135		90 90					525 525			31-525
27	First Aid	18 18		10 10		30 30		* *	15 15	30 30			45 45				* *					10-45
29	Physics	24 24	55 55				72 192		45 180			30 193				10 48					35 35	10-193
30	Zoology		99 99				72 180		135 135							96 96			45 45			45-180
31	Nursing, Geriatrics	75 75		14 20	120 158																	14-158
34	Psychology, Applied					30 90		52 52									52 52		45 45			30-90
36	Dental Assisting					90 90				32 32												32-90
40	Chemistry, Inorganic						96 96									80 80						80-96

TABLE 12 Continued

CODE NUMBER	CAREER TITLE	3 YR R.N.	2 YR R.N.	LPN	NA	DENT ASST	MED TECN	MED SEC	RAD TECN	DENT HY	DENT TECH	PT	PTA	OT	OTA	IT	MED ASST	LAB ASST	M.R. LIBR	M.R. TECH	RAD TECH	TOTAL RANGE
	CAREER NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
41 Biochemistry							36 504			* *												36-504
43 Histology							80 210			45 80		48 68						20 20				20-210
45 Lab Techniques							36 75	45 228									228 228	240 240				36-240
46 Urinalysis							186 320	60 60									60 60	160 579				60-579
47 Blood Bank							187 320											40 660				40-660
49 EKG							40 40										8 8	20 20				8-40
50 Hematology							48 960	120 120									120 120	48 900				48-960
53 Pathology						45 45	204 204			30 80		29 88		15 15		12 60						12-204
54 Serology							160 320											471 471				160-471
56 Accounting								24 105									16 110					16-110
60 Filing								50 75												* *		50-75

TABLE 12 Continued

CODE NUMBER	CAREER TITLE	3 YR R.N.	2 YR R.N.	LPN	NA	DENT ASST	MED TECN	MED SEC	RAD TECN	DENT HY	DENT TECH	PT	PTA	OT	OTA	IT	MED ASST	LAB ASST	M.R. LIBR	M.R. TECH	RAD TECH	TOTAL RANGE
	CARRER NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
61	Office Machines							30 75											135 144			30-144
62	Office Practice							15 316					45 45				78 216	60 60				15-316
63	Secretarial Practice and Procedures							72 350									4 350			60 184		4-350
64	Terminology							75 145	24 105				30 30	45 45	2 2	6 6	144 144	180 180	30 64	25 72	20 20	2-180
65	Typing					90 90		90 330									240 240		45 45			45-330
66	Economics							45 45											45 45			45-45
68	Administration, Departmental								30 600								22 22				5 306	5-600
74	Radiation Safety								560 560												2 654	2-654
78	Radiography, Intra-Oral					90 90			30 466	15 32		4 4										4-466
81	Radiation Physics							12 12	30 162												20 654	12-654
82	Radiation Therapy								15 235								338 338					15-338

TABLE 12 Continued

CODE NUMBER	CAREER TITLE	3 YR R.N.	2 YR R.N.	LPN	NA	DENT ASST	MED TECN	MED SEC	RAD TECN	DENT HY	DENT TECH	PT	PTA	OT	OTA	IT	MED ASST	LAB ASST	M.R. LIBR	M.R. TECH	RAD TECH	TOTAL RANGE
	CAREER NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
83	Radiographic Isotopes						45 45		30 158												22 257	22-257
84	Anesthesia					60 60				* *						8 40						8-60
85	Dental Anatomy					60 60				112 112												60-112
86	Clinical Practice, Dental					210 210				560 560												210-560
87	Dental Health					60 60				256 640												60-640
88	Orientation, Dental					60 60				45 45												45-60
89	Dental Materials									45 45	225 225											45-225
90	Physical Agents, Physical Therapy											30 1215	150 150	120 120								30-1215
91	Neurology											23 1108		15 105		18 30						15-1108
92	Clinical Assignment, Physical Therapy											50 675	270 270									60-675
94	Orientation, Physical Therapy											30 48	75 75									30-75

TABLE 12 Continued

CODE NUMBER	CAREER TITLE	3 YR R.N.	2 YR R.N.	LPN	NA	DENT ASST.	MED TECN	MED SEC	RAD TECN	DENT HY	DENT TECH	PT	PTA	OT	OTA	IT	MED ASST	LAB ASST	M.R. LIBR	M.R. TECH	RAD TECH	TOTAL RANGE
	CAREER NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
95	Physical Therapy											30 285	195 195									30-285
96	Therapeutic Exercise											30 1330	120 120	15 225	223 223							15-1330
97	Orientation, Occupational Therapy													30 60	40 40							30-60
100	Prin. and Prac., Occupational Therapy													60 1575	157 157							60-1575
101	Kinesiology											30 596		30 210								30-596
104	Clinical Assignment, Occupational Therapy													480 3600	348 348							348-3600
105	Tests & Measurements, Physical											45 121		15 30	16 16							15-121
114	Orgn. and Adm. Med. Rec. Librn.																		60 460	* *		60-460
115	Directed Practice, Med. Rec. Librn.																		36 505	20 360		20-505
116	Med. Rec. Sci., Med. Rec. Librn.																		100 1050	65 1623		65-1623
118	Med. Rec. Sci., Legal Aspect																		30 84	5 20		5-84

Table 12 reveals that there is a very wide range in the commonality, expressed in total clock hours of required training, for a given subject classification common to and required in several different paramedical fields. For example, consider the general subject classification of microbiology--among the most common--required in 14 of the 20 paramedical education programs studied. A synthesis of data from Table 12 reveals the total minimum and maximum clock hours required in the study of microbiology in 14 paramedical career programs to range as follow:

Code	Career Requiring Microbiology	Range in Clock Hours
1	Three-Year Registered Nurse	36 - 256
2	Two-Year Registered Nurse	55 - 128
3	Licensed Practical Nurse	16 - 116
5	Dental Assistant	30 - 330
6	Medical Technologist	96 - 880
7	Medical Secretary	60 - 60
8	X-ray Technologist	90 - 90
9	Dental Hygienist	75 - 75
11	Physical Therapist	6 - 6
13	Occupational Therapist	15 - 15
15	Inhalation Therapist	5 - 128
16	Medical Assistant	40 - 40
17	Laboratory Assistant	120 - 660
18	Medical Record Librarian	15 - 120

Similar comparisons like those above can be abstracted from the contents of Table 12 for each of the subject classifications required in two or more of the paramedical education programs studied.

CHAPTER IV

MAJOR FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

1. An analysis of 20 paramedical career programs revealed that 2,613 course titles could be assigned to 126 different general subject classifications.

2. Of the 126 general subject classifications, 48 were not common to any other paramedical field. These 48 general subject classifications, not common to any two paramedical career programs, in all probability would not be considered as part of a core program for training paramedical personnel.

3. Seventy-eight of the 126 general subject classifications were common to two or more paramedical fields.

4. Of the 2,613 course titles 34 were sufficiently unique to be classified under a general category subject classification "0" for uncommon. These courses titles, in all probability, would not be considered as a part of a core program for training paramedical personnel.

5. Of the 20 paramedical career training programs commonality of general subject classifications was greater among those for three-year registered nurse, two-year registered nurse, licensed practical nurse, dental hygienist, medical secretary, radiologic technologist, medical assistant, inhalation therapist, physical therapist, occupational therapist, medical record librarian and medical technologist than among the remaining eight programs.

6. Of the 20 paramedical career training programs commonality of general subject classifications was not as great among training programs for nurse aide, dental assistant, dental technician, occupational therapy assistant, medical record technician, laboratory assistant, physical therapy assistant, and radioisotope technician when compared with the commonality of general subject classifications among those listed in number 6, supra. This is to be expected inasmuch

as these careers generally require fewer skills, and a shorter time in training than most of the other careers studied.

7. Commonality of general subject classifications was greatest between:
    a. three-year nursing and two-year nursing
    b. three-year nursing and licensed practical nursing
    c. three-year nursing and dental hygienist
    d. medical secretary and medical assistant
    e. dental hygienist and dental assistant
    f. physical therapist and occupational therapist

8. Of the 78 general subject classifications common to two or more paramedical careers, general education courses ranked first; anatomy and physiology second; microbiology and uncommon courses third; anatomy, professional ethics, general psychology, and elective courses fourth; and medical terminology fifth as subject classifications commonly required.

9. The minimum and maximum total clock hours required in training for any given subject classification required in the several different paramedical fields varied extensively. Curriculum developers should study Table 12 carefully in light of the objectives of their own particular paramedical education programs before developing a "common" course which students from several paramedical education programs would study. At this point, it would appear that more information is needed before recommending the exact subject classifications and paramedical education programs which could and should be combined.

10. Standards for training, as regards courses and clock hours required, varied greatly among the 20 paramedical career programs studied. This condition was to be expected since obviously some of the paramedical careers call for greater knowledge and skill than others.

11. The educational programs for the same career in different training institutions revealed much variation relative to the particular courses required and with respect to the time spent in clock hours of either lecture, laboratory, and/or clinical practice experiences. This was particularly noticeable in the non-accredited programs.

12. The wide variation of titles utilized to describe courses among the many training institutions in the same and in different paramedical careers made comparisons difficult in some instances and nearly impossible in a number of cases. Within programs for the same paramedical career similar course content carried many different course titles, some of which were difficult to assign to one general subject classification because they partook of the nature of two or more subject classifications. Refer to Table 7 for courses classed as "Nursing Trends", for example.

13. Some paramedical education programs do not meet the standards for accreditation of any recognized national medical or paramedical accrediting agency.

14. The Council on Medical Education of the American Medical Association had established minimum essentials for accrediting training programs in seven of the 20 fields studied: medical technologists, radiologic technologists, medical record librarians, medical record technicians, occupational therapists, physical therapists, and inhalation therapists. Minimum essentials had also been established for three-year, two-year and license practical nurse programs by the nursing associations. The minimum essentials for some of these careers had been in force several years and some were under study for revision. In the above 10 paramedical career fields the educational programs tended to be more standardized and varied to a lesser degree.

15. It was apparent that many paramedical personnel were holding titles and positions in various paramedical careers without having completed an accred-

ited training program. Some personnel held positions in these careers as a result of their work experience in hospital or health service facilities over a period of time. The limited number of accredited training institutions have not been able to supply enough formally prepared paramedical personnel graduated from accredited programs to meet the demand for health services. Many small hospitals have not had the time, facilities, and personnel to conduct formal programs of training which could meet accreditation standards.

16. The amount of general education required in most paramedical programs varied considerably in each of the specific areas of general education. The variation was due in part to the subject classification given to a particular general education course given by curricular analysts. In some cases, a course which might be commonly regarded as general education was classified as a technical course by some institutions for a particular career field, while in another institution for the same career the same course was classified as a general education course.

17. It is recommended that a series of studies be conducted of the time and motion requirements of each paramedical career investigated in this research. Such a series of studies in each career would ascertain what relationships there seem to be, if any, between what a student has to learn and what he is required to practice on the job. The present study suggests there is some disagreement among paramedical educators and curriculum developers with respect to the demands in several paramedical careers as evidenced by the different requirements in clock hours of study to prepare personnel to perform certain specific functions on the job.

18. Since certain of the different paramedical education programs required identical course experiences, it seems appropriate to suggest that curriculum developers could cooperatively combine courses, classes, faculty, facili-

ties and materials to more economically and efficiently prepare personnel for responsibilities in certain paramedical fields. As indicated earlier, behavioral objectives need to be identified more precisely than now seems to be the case, before cooperative activities to combine forces will bear fruitful outcomes.

CHAPTER V

IMPLICATIONS FOR FURTHER RESEARCH

1. Since there seems to be a difference of opinion among curriculum developers of paramedical education programs (as evidenced by the extensive differences in clock hours required in similar courses of study and the different courses of study prescribed in the same paramedical field) the implication exists that a study need be conducted in each of the paramedical careers of the tasks performed by the practitioners. An analysis of the job requirements, when compared with the curricular experiences presently programmed for a paramedical student, might suggest the need for a different set of learning experiences to prepare them for the job. It may possibly be the job requirements are such that a subdivision of speciality responsibilities exist which make it feasible to create additional and new paramedical careers. Hypothetically, one might suggest a possible solution to the problem of a shortage of paramedical personnel is to reduce the preparation period for the job. If the job specializations can be narrowed and the preparation periods shortened as a result of curriculum revisions and the creation of new paramedical careers, then logically one might expect paramedical education programs to have fewer drop-outs and thus produce a greater supply of graduates. The opposite rationale might produce similar results, also. Perhaps the combining of paramedical education experiences might permit a program to produce individuals in the same period of time who can perform a greater number of tasks. In other words, the present study suggests the need to examine every facet of our paramedical preparation programs. Certainly the present different approaches to the same objective suggest the need to examine each approach as well as some other innovative approaches.

2. This study also suggests the need for developing accrediting agencies to help upgrade those educational programs where, at the present time, no accrediting agencies exist. Furthermore, in those paramedical career fields where accreditation standards are enforced there is reason to suggest greater efforts on their part be made to exert leadership in promoting experimentation and innovation in curriculum development.

3. There appeared to be a suggestion that General Education requirements (e.g., communications, humanities, social and behavioral sciences, science and mathematics, and physical education) were required irregularly among the various paramedical programs studied. This implies the need to determine what experiences in this area of study are necessary for each of the careers. Certainly, in metropolitan areas much of this content could be taught in a centrally located school rather than each institution expending time, talent, facilities, and finances for small classes of students. At the present time, this research reveals that much diffusion occurs in the area of General Education. Consolidation of content, faculty, facilities, and finances need be experimented with in order to bring about greater efficiency in the utilization of each. Certain technical courses fall into this same category and in these instances the implication suggests a similar consolidation, too.

4. This study directly suggests that programs which prepare paramedical personnel reflect the personal philosophies of the educators who have developed their curricula. One should expect this situation to develop and obtain, however, it is this condition which implies the need for research to determine what philosophical approach to a curriculum is more effective in terms of the tasks to be performed by the

practitioner. How much lecture, laboratory, and/or clinical practice experiences are necessary? While some of each must of necessity be required, the wide variation programmed experiences required in identical courses for identical careers suggests little research has been done to answer the previous question.

5. The nature of the design and procedures of this research proposal and the time, manpower, and finances available were not fully adequate to examine comprehensively the 2,613 different courses of this study to the extent and in the detail and breadth which was desirable. This study revealed the need to attempt research with a much larger budget and with employment of full-time curricular analysts in order to accomplish a greater depth of analysis.

APPENDIX A

PMRP Form 1

ADMISSION REQUIREMENTS REPORT

Division______________________________ Hospital or School______________________

Job__________________________________ Reporter______________________________

	Demonstrations Discussions Lectures Seminars	Laboratory Experience	Directed Clinical Experience	Total Clock Hours
High School Graduation Required? Yes______ No____ High School Courses Required? 1.__________ 2.__________ 3.__________ 4.__________				
Post High School Courses Required Before Admission to the Technical Training Program:				
1.______________________				
2.______________________				
3.______________________				
4.______________________				
5.______________________				
6.______________________				

Indicate clock hours under each category of experience. To change semester hours to clock hours consider one semester hour as equal to: 15 clock hours of lecture, 45 clock hours of laboratory, 75 clock hours of clinical or supervised practice.

PMRP Form 1a

ADMISSION REQUIREMENTS REPORT

Division ____________________ Hospital or School ____________________

Job ____________________ Reporter ____________________

Post High School Courses Required Before Admission to the Technical Training Program (Continued):	Demonstrations Discussions Lectures Seminars	Laboratory Experience	Directed Clinical Experience	Total Clock Hours

Indicate clock hours under each category of experience. To change semester hours to clock hours consider one semester hour as equal to: 15 clock hours of lecture, 45 clock hours of laboratory, 75 clock hours of clinical or supervised practice.

APPENDIX C

PMRP Form 2

TECHNICAL TRAINING REPORT

Division____________________________ Hospital or School____________________________

Job____________________________ Reporter____________________________

Technical Training Courses Required List in sequence to be taken as nearly as possible.	Demonstrations Discussions Lectures Seminars	Laboratory Experience	Directed Clinical Experience	Total Clock Hours

Indicate clock hours under each category of experience. To change semester hours to clock hours, consider one semester hour as equal to: 15 clock hours of lecture, 45 clock hours of laboratory, 75 clock hours of clinical or supervised practice.

APPENDIX D

PMRP FORM 4

FIRST PROGRESS REPORT

ADVISORY COMMITTEE RESEARCHER ______________________________

PARAMEDICAL FIELD ______________________________

HOSPITAL AND/OR EDUCATIONAL INSTITUTION ______________________________

DATES COVERED BY REPORT ______________________________

APPENDIX E

PMRP FORM 5

RESOURCES MATERIALS

PARAMEDICAL FIELD ________________. RESEARCHER ______________

1.

2.

3.

4.

5.

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7.

8.

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11.

12.